Subject Index to Volume 29

January	pages 1–162	July	pages 999–1200
February	pages 163–350	August	pages 1201–1362
March	pages 351–506	September	pages 1363–1468
April	pages 507–662	October	pages 1469–1584
May	pages 663–834	November	pages 1585–1764
June	pages 835–998	December	pages 1765–1928

A

Accommodation
  dark focus, arousal and, 1168
  tonic, adaptation, refractive state and, 460
  voluntary effort and, 1739
Acetazolamide, serous subretinal fluid absorption and (rabbit), 1255
n-Acetyl-β-glucosamine, vectorial accumulation in RPE, age and, 1205
Actin, in corneal endothelium (rabbit), 586
Actin filaments, trabecular cell, 251
Acyclovir
  HSV-1 latency and (mice), 232
  suppression of HSV-1 replication (rabbit), 928
Adaptation
  dynamic visual acuity with telescopic spectacles and, 1184
  light/dark, S-antigen immunolocalization in rods (toad), 1221
  monocular, of saccades and vestibulo-ocular reflex (monkey), 1339
Adenosine monophosphate, cyclic (cAMP). *See also* Cyclic nucleotides
  aqueous humor, systemic desmopressin and (rabbit), 406
  corneal endothelial cell morphology and (rabbit), 586
  lacrimal gland protein secretion and (rat), 1732
  retina-RPE adhesion and (rabbit), 910
Adenosine triphosphatase (ATPase)
  calcium, in lens of eye (animal), 982
  calcium-stimulated, in iris-ciliary body, vanadate and (rabbit), 1866
  H-K, of gastric mucosa, monoclonal antibodies to, as markers for ciliary epithelial nonpigmented cells (rabbit), 785
  Na-K: in ciliary epithelium, ouabain localization (rabbit), 606
    in mechanically dissociated rods (frog), 1012
Adhesion complex, cornea, development of, 727
α_1-Adrenergic receptors, RPE (rabbit), 737
β-Adrenergic agonists, aqueous flow and, 621
β-Adrenergic binding sites, retina (bovine), 695
β-Adrenergic receptor, lens fiber cell response to, isoproterenol and (chick), 1356
β-Adrenergic receptor antagonist (blocker), IOP and, 776
Age/aging
  corneal endothelial cell changes, aldose reductase inhibition and (rat), 940
  of donor, retinal graft success and (rat), 498
  intraocular catalase and, 335
  in vitro, RPE, 1784, 1787
  light absorption by lens and, 1306
  retinal distribution of macular pigment and, 843, 850
  vectorial accumulation of cathepsin D in RPE and, 1205
Albinism
  dark-adapted light sensitivity and, 544
  glaucoma in, retinal ganglion cell loss (quail), 901
  oculocutaneous, optical pathway misrouting in, 1165
Albumin, intraocular measurement, fluorescence polarization, 133
Aldose reductase inhibitors. *See also* Sorbinil
  diabetic corneal endothelial cell changes in (rat), 940
Alkali burns, cornea, citrate and/or ascorbate in (rabbit), 1110
Allograft, corneal
  immunity to, tissue dose and site of grafting and (rat), 1663
  rejection, 933
  survival, topical cyclosporine in Azone and (rabbit), 208
Amblyopia
  spatial imprecision in, contrast sensitivity and, 323
  suppression and, 444
Anaphylatoxins, in vitreous humor, 1195
Anchoring fibrils, corneal epithelium, 727
Angiogenesis, retinal-derived factors of, vascular endothelial cell prostacyclin release and (bovine), 1213
Angiotensin, ocular, 1749
Angiotensin-converting enzyme, in ocular tissue, 876
Angiotensin-converting enzyme inhibitor, ocular angiotensin-converting enzyme activity and, 876
Anisometropia
  spatial imprecision in, 323
  suppression and, 444
Ankylosing spondylitis, in Dutch population, HLA-B27 subtype and, 1137
Anterior chamber, Scheimpflug biometry, 1826
Antibody(ies)
  extraocular muscle, in Graves' ophthalmopathy, 175
  viral, in tears, 1552
Antigens, MHC
  corneal fibroblasts, 1402
  in extraocular muscle specimen from Graves' ophthalmopathy, 175
  in *Klebsiella* keratoconjunctivitis (mice), 108
  in ocular inflammatory disease, 1444
Aqueous flare, intraocular albumin measurement via fluorescence polarization, 133
Aqueous humor
  ciliary Na-K ATPase and, 606
  dynamics: episcleral hypothermia and, 138
    systemic desmopressin and (rabbit), 406

flow:
in Horner's syndrome, isoproterenol and, 621
phenylephrine and, 1469
timolol and (monkey), 1498
hydrogen peroxide removal by trabecular meshwork (calf), 976
outflow. *See* Outflow facility
protein concentration, calcium gene-related peptide and (animal), 1006
Arachidonic acid metabolism
retinal (bovine), 1511
trabecular meshwork cell, 1708
Area centralis
cathepsin D activity in RPE cells from (bovine), 1787
in vitro RPE cell growth (bovine), 1784
Arousal, dark focus and dark vergence and, 1168
Arrestin. *See* S-antigen
Ascorbate
active transport, ciliary epithelium (rabbit), 594
flux, in ciliary epithelium (rabbit), 594
topical, aseptic alkali-induced corneal ulcers and (rabbit), 1110
Aspartate, intravitreal, separation of scotopic threshold response and a-wave of ERG (monkey), 1615
Auditory feedback, vertical and horizontal eye movements in dark and, 1860
Autoantibody, to experimental onchocercal infection, 827
Autoimmune uveitis, experimental (EAU)
adoptive transfer of S-antigen-specific T cell line and, immunohistochemical study, 411
FK506 and (rat), 1265
Autoimmunity
lymphokines in, 1444
murine models, 1437
S-antigen-specific lymphocytes, 1636
Autophagy, photoreceptors, 671
Autoradiography, mannose receptors on RPE (rat), 742
Axonopathy, neuronal degeneration, carbon disulfide exposure and (monkey), 519
Azone, topical cyclosporine in, corneal allograft survival and (rabbit), 208

B

Bacterial adherence assay, *Pseudomonas* adherence to cornea (rat), 379
Benzalkonium chloride
corneal epithelial effects (chick), 174
proparacaine plus. *See* Ophthetic
Bicarbonate, sensitivity to, corneal endothelial fluid pump (rabbit), 216
Biometry, Scheimpflug camera in, 1826
Binocular rivalry, 444
Binocular summation, disparity range for, 283
Bioerodible polymers, for drug delivery, 1692
Biopsy
extraocular muscle, Graves' ophthalmopathy, 175
retinal (animal), 2
Blepharitis, animal model, 1190
Blepharoconjunctivitis, retinoid-induced, laboratory model, 1559
Blepharospasm, doxorubicin in (monkey), 1854
Blood-aqueous barrier, calcium gene-related peptide and (animal), 1006
Blood flow
ocular, galactosemia and (rat), 861
retinal. *See* Retina, blood flow
Blood-retinal barrier
fluid flow across, plasma osmolality and IOP and (monkey), 1747
magnetic resonance imaging (rabbit), 663
Body position, IOP and, 1492
Bruch's membrane
in RPE phagocytosis, 708
scanning electron microscopy (rat), 1380
Bupivacaine HCl, extraocular myotoxicity (monkey), 163
O-Butyryl timolol, therapeutic index (rabbit), 626

C

Calcium
homeostasis, bupivacaine HCl myotoxicity and (monkey), 163
lacrimal gland protein secretion and (rat), 1732
Calcium gene-related peptide
immunoreactive nerve fibers, in eye, 305
ocular effects (animals), 1006
Carbon disulfide, visual toxicity (monkey), 512, 519
Carboxyfluorescein
delivery to retina, system for, 1179
inward permeability of blood-retinal barrier to (monkey), 1747
Carotenoids, in macula and whole retina, 850
Catalase, ocular concentration (rabbit), 335
Cataract
cholesterol in lens fiber cell membrane and (rat), 261
cortical, selenite-induced, histology (rat), 1418
disulfide bonding of crystallins in lens membrane, 145
Emory mouse. *See* Emory mouse
lens density index and, 1306
MP26 mRNA in, 802
nuclear, photograding, 73
Cathepsin D, RPE
cellular activity, regional comparisons (bovine), 787
vectorial accumulation, age and, 1205
C3b receptors, on HSV-infected corneal endothelial cells (rabbit), 1352
Cell culture
conjunctiva, β-galactosidase activity (cat), 487
conjunctival epithelium: chlamydial infection, 1087
substrate effect on differentiation and morphology (rabbit), 1565
conjunctival fibroblasts, proliferation and collagen synthesis, D-penicillamine and daunorubicin and, 112
corneal endothelium:
collagen synthesis (bovine), 200
HSV induction of Fc and C3b receptors on (rabbit), 1352
pharmacologic model of, morphology (rabbit), 586
corneal epithelial cell: attachment, GRGDS and (rabbit), 1820
chemotactic and haptotactic activity of fibronectin, 5722
proliferation and protein synthesis, 1800
lamina cribrosa, 78
Müller cells (rabbit), 892
nonpigmented ciliary epithelial cells: isolation and separation technique (rabbit), 817
monoclonal antibody marker of (rabbit), 785
retinal, growth of neurons and photoreceptors in (mice), 534
RPE: cathepsin D activity (bovine), 1787
growth, topographic differentiation (bovine), 1784
scleral fibroblast proliferation, heparin and, 1272
trabecular meshwork hydraulic conductivity in, 1836
Chalazia, lipid analysis, 482
Chemotaxis, fibronectin in corneal epithelial wounds (rat), 572
Children. *See* Pediatric patient

Chlamydia, major outer membrane protein, immunization with (monkey), 1847
Chlamydial infection, conjunctival epithelium, culture system, 1087
Chlamydia trachomatis, subunit vaccine, 1847
Cholesterol
in cataractous lens fiber cell membrane (rat), 261
in chalazia lipids, 482
Cholinergic agents
iris norepinephrine neurosecretion and (rabbit), 615
outflow facility and, after ciliary ganglionectomy (monkey), 491
Chondroitin sulfate. *See also* Glycosaminoglycans
in corneal preservation media, beneficial effect of, 657
Chorioretinitis, onchocercal (monkey), 1642
Choroid, melanoma, animal model, 995
Chromatography, liquid, high-performance, macular pigment, 843, 850
Ciliary body, prorenin in, 1749
Ciliary epithelium
ascorbate transport in (rabbit), 594
calcium-stimulated ATPase in, vanadate and (rabbit), 1866
Na-K ATPase in, ouabain localization (rabbit), 606
nonpigmented cells: isolation (rabbit), 817
monoclonal antibody localization of (rabbit), 785
Ciliary ganglionectomy
cholinergic drugs and outflow facility after (monkey), 491
ciliary muscle cholinergic supersensitivity following, muscarinic receptor concentration and (monkey), 600
Ciliary muscle, postdenervation cholinergic supersensitivity, muscarinic receptor concentration and (monkey), 600
Citrate
topical, aseptic alkali-induced corneal ulcers and (rabbit), 1110
vascular, adherence of leukotriene B_4-treated polymorphonuclear leukocytes and, 869
Colchicine, trabecular cell cytoskeleton and, 251
Collagen
alkali-treated: polymorphonuclear leukocyte adherence and, 869
polymorphonuclear leukocyte stimulant in, 955
in corneal fibrils, immunocytochemistry (chick), 1125
optic nerve head (monkey), 1141
synthesis, by cultured conjunctival fibroblasts, D-penicillamine and daunorubicin and, 112
type III: corneal (rabbit), 767
corneal endothelial cell synthesis (bovine), 200
type IV, corneal (chick), 101
type VI, corneal (rabbit), 760
type VII, corneal anchoring fibrils, 727
Collagen gel, in culture plate substrate, conjunctival epithelial cell differentiation and morphology and (rabbit), 1565
Color vision, in ocular hypertension, 1486
Color vision testing
Farnsworth-Munsell 100-Hue test, Fourier analysis, 476
quantitative scoring of panel tests, 50
Complement system
in sclera, 1756
vitreous, 1195
Concanavalin A, *Pseudomonas* adherence to cornea and (rat), 379
Cones. *See* Photoreceptors
Conjunctiva
cell culture: chlamydial infection, 1087
β-galactosidase activity, GM_1 gangliosidosis and (cat), 487
epithelium: cell differentiation and morphology, culture substrata and (rabbit), 1565
transdifferentiation into corneal epithelium, ultrastructural study (rabbit), 224
goblet cells, morphogenesis (rat), 969
Toxoplasma gondii invasion (guinea pig), 1871
vasopermeability, leukotrienes and (guinea pig), 125
Conjunctivitis, chlamydial, in vitro model, 1087
Contact lens
candidate screening, corneal staining with fluorescein, 1096
long-term wear, corneal endothelial cell morphology and function, 185
protein adsorption to, 362
Contrast sensitivity
in amblyopia, spatial imprecision in, 323
carbon disulfide exposure and (monkey), 512
infant, 44
Contrast threshold, disparity range for binocular summation and, 283
Copper vapor laser, retinal effects (rat), 528
Cornea
alkali burns, ulceration and, citrate and ascorbate/citrate in (rat), 1110
allograft. *See* Allograft, corneal; Corneal transplantation
collagen fibrils, immunocytochemistry (chick), 1125
development: adhesion complex, 727
collagen type IV fibers and substance P immunoreactive nerve fibers in (chick), 101
critical periods for drug-induced pathology (rat), 949
edema. *See* Edema, corneal
endothelium: age and diabetes-related changes, aldose reductase inhibition and (rat), 940
barrier function, oxidized glutathione and (rabbit), 1884
cell morphology and function, contact lens wear and, 185
cell proliferation, immunotoxin and, 755
collagen synthesis (bovine), 200
fluid pump: bicarbonate sensitivity (rabbit), 216
function, in Fuch's dystrophy, 357
Fuch's dystrophy, 357
isolation and long-term culture of cells, 1656
minor trauma and (rabbit), 1677
permeability, in Fuch's dystrophy, 357
pharmacologic regulation of morphology and mitosis (rabbit), 586
wound healing, morpho-functional relationship (cat), 1100
wound repair, cell morphology (cat), 1407
epithelium: cellular HLA antigen expression on, 933
cellular proliferation and migration on biopolymeric material, 393
chlamydial infection, in vitro study, 1087
glycogen levels, tear film osmolarity and, in keratoconjunctivitis sicca, 374
in vitro cell attachment, GRGDS and (rabbit), 1820
in vitro proliferation and protein synthesis, substrate and, 1800
recurrent HSV-1 lesions (rabbit), 387
sodium hyaluronate effects (chick), 194
tissue cultures, 1533
transdifferentiation from conjunctival epithelium, ultrastructural study (rabbit), 224
wound healing, fibronectin in (rabbit), 572
fibroblasts, network structure, scanning electron microscopy (rat), 1887
herpes simplex virus infection, T lymphocytes in trigeminal ganglia and (rabbit), 1683
HSV-1 reactivation in (mice), 239
IgG, analysis via isoelectric focusing, 1538
in leprosy (armadillo), 140
microfibrils, ultrastructural analysis (rabbit), 578

nerves: HSV-1 reactivation and (rabbit), 351
substance P immunoreactive nerve fibers (chick), 101
onchocercal infection (guinea pig), 827
permeability, Ophthetic and, 1096
preservation media, chondroitin sulfate effect in, 657
Pseudomonas adherence to (rat), 379
Pseudomonas aeruginosa infection, protection via monoclonal antibodies (mice), 1277
scar, keratan sulfate in, immunoanalysis (rabbit), 1116
sequential staining with fluorescein, Ophthetic and, 1096
stroma: cellular HLA antigen expression, 933
development, proteoglycans in (rabbit), 1413
suture-induced vascularization, lipid deposition and (rabbit), 1554
type III collagen in (rabbit), 767
type IV collagen in (rabbit), 760
water gradients across (bovine), 963
Corneal transplantation
allograft survival, topical cyclosporine in Azone and (rabbit), 208
HLA antigen expression on corneal cells, 933
Crystallins, disulfide bonding, in cataractous lens membrane, 145
Cyclic nucleotides
in retinal biopsy specimen (animal), 2
serous subretinal fluid absorption and (rabbit), 1255
Cyclosporine
FK506 vs, in experimental autoimmune uveitis (rat), 1265
topical, in Azone, corneal allograft survival and (rabbit), 208
Cytochalasin, retina-RPE adherence and (rabbit), 910
Cytochalasin B
photoaffinity labeling of lens glucose transporter (monkey), 630
trabecular cell cytoskeleton and, 251
trabecular meshwork hydraulic conductivity and, in vitro, 1836
Cytoskeleton
trabecular cell, characterization and drug response, 251
trabecular intermediate fibers, 244

D

Dark adaptation, retinomotor movements, prostaglandins and (teleost), 882
Dark-adapted threshold, in albino rodent, 544
Dark focus, arousal and, 1168
Darkness, constant, retinal development and (goldfish), 37
Daunorubicin, effect on in vitro conjunctival fibroblast proliferation and collagen synthesis, 112
Descemet's membrane culture, collagen synthesis (bovine), 200
Desmin, in trabecular cell intermediate filaments, 244
Desmopressin, systemic, aqueous humor dynamics and (rabbit), 406
Dexamethasone, topical, in Fuch's endothelial dystrophy, 357
Diabetes mellitus
corneal endothelial changes, aldose reductase inhibition and (rat), 940
experimental, retinal histamine synthesis in, 1201
Diabetic retinopathy
plasma fibrinopeptide A in, 856
platelet factor 4 in, 856
retinal histamine synthesis and (rat), 1201
β-thromboglobulin in, 856
Dipeptidyl carboxypeptidase. *See* Angiotensin converting enzyme
Dische, Zacharias, 999
Disparity, binocular summation and, 283
Dissociated vertical deviation, visually evoked cortical potentials in, 1165
Disulfide, in lens (mice), 823
1-Dodecylazacycloheptan-2-one. *See* Azone
Dopamine receptors, in retina, 689
Dot blot hybridization, HSV-1 DNA, 928
Doxorubicin, myotoxicity (monkey), 1854
Drug delivery system, 1179
5-fluorouracil-impregnated bioerodible polymer disks (rabbit), 1692
Drusen, 708
Dual innervation theory, 1168

E

Edema, corneal, IgG levels in cornea, 1538
Egocenter, enucleation and, 1348
Eicosanoids, trabecular meshwork production of, 1708
Electron microscopy
corneal changes in leprosy (armadillo), 140
corneal microfibrils (rabbit), 578
lipid keratopathy (rabbit), 1544
ocular surface transdifferentiation (rabbit), 224
retinal neurons in tissue culture, 1372
rod inner segment opsin, diurnal rhythm (frog), 1028
rod outer segment binding to RPE, 419
scanning. *See* Scanning electron microscopy
Electro-oculography, light peak in, photoreceptor-RPE interaction and (chick), 566
Electrophoresis, two-dimensional diagonal, lens membrane crystallins, 145
Electroretinography (ERG)
a-wave, aspartate separation from scotopic threshold response (animal), 163
bilateral, unilateral HSV-1 inoculation into anterior chamber and (mouse), 1242
b-wave amplitude, in isolated arterially perfused dye, 1044
DC, light peak in, photoreceptor-RPE interaction and (chick), 566
flash, acute IOP elevation and (cat), 558
IOP and (cat), 700
local, in retinal detachment (rabbit), 1040
oscillatory potentials, in macular region, 1631
oxygen rearing and (rat), 1623
pattern: acute IOP elevation and (cat), 558
body position and IOP and, 1492
in ocular hypertension
postvitrectomy effect of silicone oil on, 1881
rod, diurnal rhythm, in dominant retinitis pigmentosa, 494
scotopic threshold response, 1608
aspartate separation from a-wave (animal), 1615
Emory mouse, disulfide and sulfhydryl in lens of, 823
Endoglycosidase F, in cytochalasin B photoaffinity labeling of lens glucose transporter (monkey), 630
Enucleation, egocenter and, 1348
Enzyme-linked immunosorbent assay, corneal keratan sulfate proteoglycan (rabbit), 1116
Epidermal growth factor
corneal endothelial cell morphology and (rabbit), 586
in corneal epithelial wound healing (rabbit), 572
Epinephrine
iontophoresis, reactivation of herpes and (rabbit), 351
multiple dosing, ocular histopathology (monkey), 1428
RPE response to (rabbit), 737
topical, prostaglandin E synthesis in eye and (rabbit), 332
Episclera, venous pressure, hypothermia and, 138
Epitopes, of retinal S-antigen, 12
Eserine sulfate, outflow facility and, after ciliary ganglionectomy (monkey), 491
Esotropica, infantile, abnormal acuity development in, 327
Eye
absorption of timolol vs O-butyryl timolol (rabbit), 626

calcium gene-related peptide in (animal), 1006
calcium gene-related peptide immunoreactive nerves in, 305
catalase activity, hydrogen peroxide detoxification and (rabbit), 335
development (kitten), 1299
enlargement, kainic acid-induced (chick), 311
growth and development, retinal activity and (chick), 311
isolated arterially perfused, ERG b-wave component in, 1044
perfusion pressure, IOP elevation and (cat), 558

F

Farnsworth D-15 panel, quantitative scoring of, 50
Farnsworth-Munsell 100-Hue test
Fourier analysis, 476
quantitative scoring, 50
Fc receptor, for IgG, on HSV-infected corneal endothelial cells (rabbit), 1352
Fibrinopeptide A, plasma, in diabetic retinopathy, 856
Fibroblasts
corneal: immunologic function, 1402
network structure, scanning electron microscopy (rat), 1887
in vitro proliferation and collagen synthesis, D-penicillamine and daunorubicin and, 112
orbital, in Graves' ophthalmopathy, 175
scleral, proliferation, heparin and, 1272
Fibronectin
attachment, growth and differentiation of cultured Y-79 retinoblastoma cells, 1517
corneal epithelial cell adhesion and (rabbit), 1820
in corneal epithelial wound healing, chemotactic and haptotactic activity (rabbit), 572
Filtering surgery
fibroblast proliferation and collagen synthesis following, prevention of, 112
5-fluorouracil in, drug delivery system for (rabbit), 1692
Fixation, in darkness, auditory biofeedback and, 1860
FK506, experimental autoimmune uveitis and (rat), 1265
Flow cytometry, HLA antigen expression on corneal cells, 933
Fluid pump, corneal endothelium, bicarbonate sensitivity of (rat), 216
Fluorescein
intraocular fluorescence spectra, 1285
sequential instillation, corneal staining, Ophthetic and, 1096
Fluorescein angiography
carbon disulfide visual toxicity (monkey), 512
retinal blood vessel diameter, 1258
Fluorescence polarization, intraocular fluorescein-albumin system, 133
Fluorophotometry
aqueous humor flow, timolol and (monkey), 1498
intraocular albumin, 133
long-term contact lens wear and corneal endothelial morphology and function, 185
phenylephrine and aqueous flow, 1469
scanning ocular spectrofluorophotometer, 1285
5-Fluorouracil, glaucoma filtration surgery and, delivery via bioerodible polymer disks (rabbit), 1692
Fourier analysis, 476
Fovea, fixation in macular scotoma, 268
Fuch's endothelial dystrophy, topical dexamethasone in, 357
Fusion, disparity range for binocular summation and, 283

G

Galactosemia, ocular blood flow and vascular permeability in (rat), 861
β-Galactosidase, in cultured conjunctival cells, GM_1 gangliosidosis and (cat), 487
Gangliosidosis, GM_1, β-galactosidase activity in conjunctival cell culture and (cat), 487
Genetics
Igh-1 phenotype and HSV-1 keratitis (mice), 749
ornithine aminotransferase gene expression in gyrate atrophy, 1001
Geniculate nucleus, lateral (LGN), X-cells in, vertical effect in strabismus (cat), 644
Glaucoma
angle-closure, Scheimpflug biometry in, 1876
avian, selective retinal ganglion cell loss in, 901
color vision and pattern ERG in, 1486
filtration surgery. *See* Filtering surgery
lamina cribrosa cell culture in, 78
ocular hypotensive agents, 776
optic disc pallor in, videographic quantification, 320
optic disc topography in, 1151, 1294
SWS cone sensitivity in, 64
Glaucoma suspect, IOP reduction in, light sensitivity and, 1418
Glial fibrillary acidic protein (GFAP)
in Müller cells (rabbit), 892
retinal degeneration and (animal), 1363
retinal, oxygen rearing and (rat), 1623
Glucocorticoids, trabecular meshwork cell, eicosanoid production and, 1708
Glucose-6-phosphate dehydrogenase, in lens epithelial cells (rabbit), 821
Glucose transporter, in lens of eye (monkey), 630
Glutathione
in lens of eye, hyperbaric oxygen and (rabbit), 1312
oxidized, corneal endothelial barrier function and (rabbit), 1884
Glutathione peroxidase, in adult and premature human retina, 149
Glutathione-S-transferase, in adult and premature human retinas, 149
Glycosaminoglycans, trabecular biosynthesis, corneoscleral explant organ culture study, 90
Goblet cells, conjunctival
differentiation, culture substrate and (rabbit), 1565
frequency, retinol deficiency and (rabbit), 1671
morphogenesis (rat), 969
ocular surface transdifferentiation and (rabbit), 224
tear film osmolarity and, in keratoconjunctivitis sicca (rabbit), 374
Graves' ophthalmopathy, extraocular muscle biopsy in, immunohistochemical study, 175
Green melanoma, subchoroidal transplantation (rabbit), 995
GRGDS, in vitro corneal epithelial cell adhesion and (rabbit), 1820
Gyrate atrophy, ornithine aminotransferase gene expression in, 1001

H

Haptotaxis, fibronectin in corneal epithelial wounds (rabbit), 572
Head motion, dynamic visual acuity during, telescopic spectacles and, 1179
Hemidesmosomes, corneal epithelial, development of, 727
Hemolytic assay, scleral complement, 1756
Heparan sulfate. *See also* Glycosaminoglycans
optic nerve head (monkey), 1141
Heparin, scleral fibroblast proliferation and, 1272
Herpes simplex virus
type 1 (HSV-1): corneal endothelial cells: Fc receptor for IgG on (rabbit), 1352
C3b receptors on (rabbit), 1352

corneal infection: Igh-1 phenotype and (mice), 749
T lymphocytes in trigeminal ganglia during (rabbit), 1683
latent infection (mice), 239
reactivation (mice), 239
corneal nerves and (rat), 351
timolol iontophoresis and (rabbit), 387
replication, drug-induced suppression of, in vitro model, 928
replication and latency in trigeminal ganglia (mice), 232
tear antibodies, 1552
unilateral anterior chamber inoculation, bilateral ERG and retinal histology and (mice), 1242
type 2, corneal endothelial cells: Fc receptor for IgG on (rabbit), 1352
C3b receptors on (rabbit), 1352
Histamine, retinal synthesis, in diabetic rat, 1201
Histidine decarboxylase, retinal histamine synthesis and, 1201
HLA-DR antigens. *See* Antigens, MHC
HLA system
antigen expression on corneal epithelial and stromal cells, 933
class II antigens. *See* Antigens, MHC
HLA-B27 subtypes, and acute anterior uveitis in Dutch population, 1137
Horner's syndrome, aqueous flow in, isoproterenol and, 621
Hybridization in situ, MP26 mRNA in lens, 802
Hydrogels, tear protein adsorption to, 362
Hydrogen peroxide
in aqueous humor, removal by trabecular meshwork (calf), 976
intracameral, anterior chamber effects (rabbit), 335
Hydroxy ethyl cellulose, corneal epithelial effects (chick), 194
Hypercholesterolemia, lipid keratopathy in (rabbit), 1544
Hypergalactosemia, prostaglandin biosynthesis in lens cells and (bovine), 1452
Hyperkeratinization, meibomian gland, in rhino mouse, 1190
Hypersensitivity, immediate, conjunctival, leukotrienes and (guinea pig), 125
Hypertension, ocular
acute effects (cat), 558
color vision and pattern ERG deficits in, 486
ERG in (cat), 700
hypotensive agents, 776
SWS cone sensitivity in, 64
Hypopigmentation, dark-adapted light sensitivity and, 544
Hypothermia, episcleral, aqueous humor dynamics and, 138
Hypoxia, retinal, ERG and (cat), 700

I

Image analysis
optic disc pallor, 320
optic nerve topography, in glaucoma, 1294
retinal blood vessel diameter, 1258
Imaging fundus reflectometry
autosomal dominant retinitis pigmentosa, 1235
visual pigment distribution and kinetics (cat), 1056
Immunity
to corneal allograft, tissue dose and site of grafting and (rat), 1663
mucosal, 1552
chlamydial subunit vaccine and (monkey), 1847
rod-cone dysplasia (dog), 1594
Immunization, chlamydial major outer membrane protein (monkey), 1847
Immunoblot analysis, immunoreactive opsin and RPE phagolysosomes, 700
Immunocytochemistry
collagen fibrils (chick), 1125
glial fibrillary acidic protein in Müller cells during retinal degeneration (animal), 1363
protein distribution in mechanically dissociated rods (frog), 1012
retinal biopsy specimen, 2
retinal Müller cells (rabbit), 892
rod inner segment opsin content, diurnal rhythm (frog), 1028
S-antigen in rod-cone dysplasia (dog), 1594
trabecular intermediate filaments, 244
Immunoelectron microscopy, quantitative, S-antigen in rods (toad), 1221
Immunogenetics, Igh-1 phenotype and HSV-1 keratitis (mice), 749
Immunoglobulin G (IgG)
in cornea, 1538
Fc receptor for, on HSV-infected corneal endothelial cells (rabbit), 1252
Immunohistochemistry
calcium gene-related peptide immunoreactive nerves, 305
experimental autoimmune uveitis induced by adoptive transfer of ThS line (rat), 411
extracellular matrix composition of optic nerve head (monkey), 1141
extraocular biopsy specimen, in Graves' ophthalmopathy, 175
peptide immunoreactive neurons in retina, 680
prorenin in ocular tissue, 1749
type III collagen in cornea (rabbit), 767
Immunohistology, murine Sjögren's syndrome, 1437
Immunosuppression, recurrent toxoplasmic retinochoroiditis and (monkey), 835
Immunotoxin, corneal endothelial cell proliferation and, 755
Indomethacin
corneal endothelial cell morphology and (rabbit), 586
epinephrine-induced intraocular prostaglandin E synthesis and, 332
iris muscle tone and, 127
Infant. *See* Pediatric patient
Inflammation, ocular, quantitation with indium-111-labeled leukocytes (rabbit), 429
Inflammatory cell markers, experimental autoimmune uveitis, 411
Inflammatory cells, corneal, in leprosy (armadillo), 140
Inflammatory eye disease, lymphokines, γ-interferon, and interleukin-2 in, 1444
Instrumentation, scanning ocular spectrofluorophotometer, 1285
γ-Interferon
HLA antigen expression on corneal cells and, 933
in inflammatory eye disease, 1444
Interleukin-2, in inflammatory eye disease, 1444
Interphotoreceptor matrix
proteins in, in retinitis pigmentosa, 1585
retina-RPE adhesion and (rabbit), 910
Intermediate filaments, trabecular cell, immunocytochemical analysis, 244
Intraocular pressure (IOP)
body position and, 1492
calcium gene-related peptide and (animal), 1006
episcleral hypothermia and, 138
ERG and (cat), 700
fluid flow across blood-retinal barrier and (monkey), 1747
L-653,328 and (rabbit), 776
phenylephrine and aqueous flow and, 1469
prostaglandin $F_{2\alpha}$ and, 1474
reduction, in glaucoma suspect, light sensitivity and, 1478
systemic desmopressin and (rabbit), 406
Iontophoresis
epinephrine, HSV-1 reactivation (rabbit), 351
timolol, HSV-1 reactivation (rabbit), 387
tobramycin, transcorneal (rabbit), 1397
Irrigation solutions, intraocular, oxidized glutathione in, corneal endothelial barrier function and (rabbit), 1884

Iris
dilator muscle: indomethacin and, 127
neuropeptide Y and (rabbit), 330
prostaglandins and, 127
epinephrine neurosecretion, prejunctional muscarinic receptors and (rabbit), 615
sphincter muscle: indomethacin and, 127
prostaglandins and, 127
Ischemia, retinal
cell mitosis and (rat), 1050
electrical activity and (cat), 558
Isocitrate dehydrogenase, NADP-dependent, in lens epithelial cells (rabbit), 821
Isoelectric focusing, corneal IgG analysis, 1538
Isoproterenol
aqueous flow in Horner's syndrome and, 621
cytoskeletal reorganization of lens fiber cells and (chick), 1356
Isotretinoin
meibomian gland dysfunction and, in laboratory model, 1559
toxicity (rabbit), 1559

K

Kainic acid, eye enlargement and (chick), 311
Keratan sulfate. *See also* Glycosaminoglycans
in corneal scar, immunoanalysis (rabbit), 1116
Keratitis
herpes simplex: ganglionic permissivity to HSV-1 replication and latency and (mice), 232
Igh-1 phenotype and (mice), 749
onchocercal (guinea pig), 827
pseudomonal, monoclonal antibodies to *Pseudomonas aeruginosa* and (mice), 1277
Keratoconjunctivitis, *Klebsiella*, corneal MHC antigens in (mice), 108
Keratoconjunctivitis sicca, animal model, tear film osmolarity and ocular surface disease, 374
Keratoplasty
corneal IgG content, 1538
penetrating, HSV-1 reactivation and (rabbit), 351
Keratoprosthesis, corneal epithelial cell adherence to and proliferation on biopolymeric material, 393
Ketamine, xylazine plus, corneal lesions from (rat), 949
Klebsiella keratoconjunctivitis, corneal MHC antigens in (mice), 108

L

L-653,328, ocular hypotensive agent with β-adrenergic blocking activity (rabbit), 776
Lacrimal gland
fluid, proteins in (rabbit), 991
inflammatory lesions (mice), 1437
protein secretion: cAMP and calcium in (rat), 1732
phorbol esters and (rat), 1726
Lamina cribrosa
cell culture, 78
collagen in (monkey), 1141
Laminin
attachment, growth and differentiation of cultured Y-79 retinoblastoma cells, 1517
optic nerve head (monkey), 1141
Langerhans cells, corneal, in *Klebsiella* keratoconjunctivitis (mice), 108
Lasers. *See specific lasers*
Latency. *See also* Herpes simplex virus, type 1
functional definition, 239
Lectin, binding to rod outer segment plasma membrane (frog), 1523
Lens density index, 1306
Lens of eye
Ca-ATPase activity (animal), 982
cytoskeletal reorganization of fiber cells, isoproterenol and (chick), 1356
displacement, aqueous outflow and, 1159
disulfide in (mouse), 823
disulfide-linked membrane crystallins, 145
epithelium: cell communication, 1713
NADP-dependent isocitrate dehydrogenase and malic enzyme activity in (rabbit), 821
equatorial potassium current in, ouabain and, 1753
fiber cell plasma membrane, cholesterol in (rat), 261
glucose transporter (monkey), 630
histologic changes in selenite cortical cataract (rat), 1418
light absorption, in vivo assessment, 1306
MP26 mRNA in, 802
nuclear response to hyperbaric oxygen (rabbit), 1312
opacities. *See* Cataract
prostaglandin synthesis, hypergalactosemia and (bovine), 1452
sulfhydryl in (mouse), 823
Leprosy, corneal changes in (armadillo), 140
Letters, 1461–66, 1759
Leukocytes
indium-111-labeled, quantitation of ocular inflammation (rabbit), 429
polymorphonuclear: stimulant in alkali-treated collagen, 955
vascular adherence, citrate and, 869
Leukotrienes
B_4, treatment of polymorphonuclear leukocytes, adherence and, 869
conjunctival microvascular permeability (guinea pig), 125
Lidocaine HCl, extraocular myotoxicity, 163
Light absorption, by lens of eye, age and, 1306
Light exposure, constant, retinal development and (goldfish), 27
absolute visual threshold and, 37
Light sensitivity
dark-adapted, in albino rodents, 544
in glaucoma suspect, IOP reduction and, 1478
Limbus, epithelium, tissue culture, 1533
Lipid keratopathy, animal model system, ultrastructural study, 1544
Lipids, in chalazia, 482
Lipofuscin granules, in photoreceptors, 671, 708
Liposomes, for drug/dye delivery to retina, 1179
Low-vision, telescopic spectacles for, dynamic visual acuity and, 1179
LS2616, and metastases of murine ocular melanoma, 1505
Lutein, retinal distribution, 843, 840
Lymphocytes, S-antigen-specific, 1636
Lymphokines, in inflammatory eye disease, 1444

M

Machemer, Robert, 1766
comments on receipt of Proctor Medal, 1768
Proctor lecture, 1771
selected publications of, 1769
Macula
carotenoids in, 850
ERG, oscillatory potentials in, 1631
pigment distribution, 843, 850
scotoma, eccentric fixation in, 268
Macular degeneration, age-related, macular pigment in, 850
Magnetic resonance imaging, blood-retinal barrier (rabbit), 663

Major histocompatibility complex (MHC) antigens. *See also* Antigens, MHC
corneal, *Klebsiella* keratoconjunctivitis (mice), 108
corneal, fibroblasts, 1402
Malic enyzme, NDAP-dependent, in lens epithelial cells (rabbit), 821
Mannose, RPE cell receptors for (rat), 742
Mannose 6-phosphate, RPE cell receptors for (rat), 291
Matrigel, differentiation and morphology of cultured conjunctival epithelial cells and (rabbit), 1565
Meibomian gland
dysfunction, isotretinoin and (rabbit), 1559
lipids, 482
in rhino mouse, 1190
Melanoma
experimental, subchoroidal implantation technique (rabbit), 995
ocular, pulmonary metastases from, LS2616 and (mice), 1505
uveal, metastatic potential, 507
Metastatic disease, murine ocular melanoma, LS2616 and, 1505
Microfibrils, corneal, ultrastructural analysis (rabbit), 578
Microscopy
specular, long-term contact lens wear and corneal endothelial cell morphology and function, 185
time-lapse, in vitro growth of *Chlamydia trachomatis* in conjunctival epithelium, 1087
Microspectrophotometry, melanoma prognosis, 507
Mitosis
ocular surface cells, retinol deficiency and (rat), 1671
retinal, ischemia and (rat), 1050
Monoclonal antibody (study)
cone-specific monoclonal antibodies (CSA-1), 550
keratan sulfate, 1116
localization of nonpigmented ciliary epithelial cells (rabbit), 785
to *Pseudomonas aeruginosa,* ocular infection and (mice), 1277
retinal S-antigen epitope, 12
Morphometry
melanoma prognosis, 507
optic disc, 1151
in glaucoma, 1294
Movements of eye
fixation in macular scotoma, 268
horizontal and vertical fixation in darkness, auditory biofeedback and, 1860
length-tension curves of eye muscles and, 1320
saccadic. *See* Saccades
simulation scotoma and, 470
mRNA
MP26, in lens of eye, 802
ornithine aminotransferase, in gyrate atrophy, 1001
Mucin, goblet cells (rat), 969
Müller cells
glial fibrillary acidic protein in, retinal degeneration and (animal), 1363
immunocytochemical characterization (rabbit), 892
oxygen rearing and (rat), 1623
Muscarinic receptors,
ciliary muscle, post parasympathetic denervation (rabbit), 600
prejunctional, in iris-ciliary body, adrenergic neurosecretion and (rabbit), 615
Muscle
extraocular: biopsy, in Graves' ophthalmopathy, 175
bupivacaine toxicity (monkey), 163
lidocaine toxicity, 163
paresis, monocular adaptation of saccades and vestibulo-ocular reflex and (monkey), 1339
succinylcholine-induced contraction, length-tension curves during, 1320
iris: indomethacin and prostaglandins and, 127
neuropeptide Y and (rabbit), 330
Myopathy, doxorubicin-induced (monkey), 1854
Myopia
eye growth and retinal activity, 311
late-onset, tonic accommodation in, 460

N

Neodymium: YAG laser
plasma shielding, nanosecond vs picosecond pulse duration, 437
short-pulsed trabeculotomy, morphologic study, 1698
Neovascularization, retinal extract-stimulated vascular endothelial cell prostacyclin release (bovine), 1213
Nerves
calcitonin gene-related peptide immunoreactive, 305
substance P immunoreactive, 101, 680
Network structure. *See* Cornea, fibroblasts
Neurons, retinal, cell culture for (mice), 534
Neuro-ophthalmology, visual field assessment in infant, 452
Neuropeptides, retinal, 680
Neuropeptide Y
immunoreactive neurons, retina, 680
iris dilator muscle and (rabbit), 330
Neuroretinal rim, 1151
in glaucoma, 1294
Night blindness, 544
Nocodozole, trabecular cell cytoskeleton and, 251
Norepinephrine, neurosecretion in iris-ciliary body, prejunctional muscarinic receptors and (rabbit), 615
Nystagmus, congenital, oscillopsia and retinal image stabilization in, 279

O

Occupational risks
carbon disulfide exposure, 512
ocular ultraviolet radiation exposure, 649
Ocular surface. *See also* Conjunctiva; Cornea
epithelial response to corneal wounding, retinol deficiency and (rabbit), 1671
transdifferentiation, 224
wound healing, vitamin A deficiency and (rabbit), 1671
Oculomotor auditory biofeedback, vertical and horizontal eye movements in dark and, 1860
Oculomotor stability, tonic vergence, 1577
Onchocerciasis
experimental model, 827
ocular lesions, animal model, 1642
Operant grating acuity, in pediatric patient, monocular acuity deficit, criteria for, 636
Ophthetic, corneal staining with sequential instillations of fluorescein and, 1096
Opsin
immunoreactive: retinal, retinitis pigmentosa and, 1585
RPE phagocytosis and, 708
in mechanically dissociated rods (frog), 1012
in rod inner segment, diurnal rhythm (frog), 1028
Optic chiasm, compression, saccadic latency in, 1331
Optic disc
morphometry, 1151
in glaucoma, 1294
pallor, videographic quantification, 320
Optic nerve, conduction delay, saccadic latency and, 1331
Optic nerve head
extracellular matrix composition (monkey), 1141
morphometry, 1151
Optic neuritis, saccadic latency in, 1331

Optical landmarks, age and (kitten), 1299
Orbicularis oculi, doxorubicin injection (monkey), 1854
Organ culture
  corneoscleral explant, trabecular morphology and glycosaminoglycans synthesis, 90
  Descemet's membrane/corneal endothelium, collagen synthesis (bovine), 200
Ornithine aminotransferase, gene expression in gyrate atrophy, 1001
Oscillatory potentials, in macular region ERG, 1631
Oscillopsia, in congenital nystagmus, retinal image stabilization in, 279
Osmolality, plasma, fluid movement across blood-retinal barrier and (monkey), 1747
Ouabain
  lens equatorial potassium current and, 1753
  localization of ciliary Na-K ATPase (rabbit), 606
Outflow facility
  axial lens displacement and, 1159
  cholinergic drugs and, post ciliary ganglionectomy (monkey), 491
  in vitro system for study of, 1836
  trabecular glycosaminoglycans and, 90
Oxygen
  delivery to ischemic retina, catheter method (cat), 298
  hyperbaric, lens effects (rabbit), 1312
Oxygen tension, preretinal, light and dark and (rabbit), 988
Oxytalan fibers, 578

P

Parasympathetic denervation, ciliary muscle, cholinergic supersensitivity following (monkey), 600
Parasympathetic innervation, accommodation and, 460
Pediatric patient
  enucleation and egocenter, 1348
  high visual contrast sensitivity in infant, 44
  infantile esotropia, abnormal acuity development in, 327
  monocular acuity deficit, criteria for, 636
  retinopathy of prematurity. *See* Retinopathy of prematurity
  visual fields of infants assessed with new perimeter technique, 452
D-Penicillamine, effect on in vitro conjunctival fibroblast proliferation and collagen synthesis, 112
Peptide histidine-isoleucine, immunoreactive neurons, retina, 680
Perimetry, infantile, 452
Perimetry, automated
  black hole effect, 795
  threshold variability with Dicon AP 2000, 915
Persistent hyperplastic tunica vasculosa lentis/persistent hyperplastic primary vitreous, early morphogenesis (dog), 1076
Phagocytosis
  rod outer segments, 419
    rod ERG diurnal rhythm in dominant retinitis pigmentosa and, 494
  RPE cells. *See* Retinal pigment epithelium, phagocytosis
Phenylephrine, aqueous flow and, 1469
Phosphodiesterase-immunoreactive polypeptide, in rods from hereditary retinal degeneration (mouse), 1021
Photoaffinity labeling, lens glucose transporter (monkey), 630
Photocoagulation, copper vapor laser, 528
Photodisruption
  copper vapor laser, 528
  Nd:YAG laser, plasma shielding, 437
Photography
  grading nuclera cataract, 73
  Scheimpflug. *See* Scheimpflug camera
Photoreceptors
  cell culture for, 534
  cone-specific monoclonal antibodies, 550
  development, constant light and (goldfish), 27
  interaction with RPE, light peaks in DC ERG/EOG and (chick), 566
  lipofuscin granules, 671
  macular pigment in, 843
  mechanically dissociated rods, membrane protein distribution (frog), 1012
  outer segment phagocytosis by RPE, 291
  phosphodiesterase-immunoreactive polypeptide in rods, in hereditary retinal degeneration (mouse), 1021
  preretinal oxygen tension and (rabbit), 988
  retinal biopsy and (animal), 2
  retinomotor movements, prostaglandins and (teleost), 882
  rod-cone dysplasias, S-antigen in (dog), 1594
  rod inner segment opsin content, diurnal rhythm (frog), 1028
  rod outer segment: binding to RPE, rhodopsin and, 419
    in dominant retinitis pigmentosa, 494
  S-antigen in rods, immunolocalization (toad), 1221
  sialoglycoproteins in rod outer segment plasma membrane (frog), 1523
  SWS cone sensitivity in glaucoma and ocular hypertension, 64
  visual pigment distribution and kinetics (cat), 1056
Phototoxicity, ultraviolet radiation, 649
Pilocarpine
  ciliary muscle supersensitivity to, after parasympathetic denervation (monkey), 600
  outflow facility and, after ciliary ganglionectomy (monkey), 491
Plasma shielding. *See* Neodymium:YAG laser
Plasminogen activator
  and corneal wound healing, in vitamin A deficiency (rat), 1810
  in trabecular meshwork cells, 401
Platelet factor 4, in diabetic retinopathy, 856
Polyols, vascular integrity and, in galactosemia, 861
Potassium current, lens of eye, ouabain and, 1753
Prazosin, RPE response to (rabbit), 737
Preferential looking, in pediatric patient, monocular acuity deficit, interocular difference criterion, 636
Proctor award, 1766
Proctor lecture: proliferative vitreoretinopathy: a personal account of its pathogenesis and treatment, 1771
Prodrugs, O-butyryl timolol, 626
Proliferative vitreoretinopathy, pathogenesis and treatment, 1771
Proparacaine HCl, benzalkonium chloride and. *See* Ophthetic
Prorenin, in ocular tissues, 1749
Prostacyclin (PGI)
  synthesis by retinal capillary pericytes (bovine), 1511
  vascular endothelial cell release of, retinal angiogenic extract and (bovine), 1213
Prostaglandins
  E (PGE), intraocular synthesis, topical epinephrine and (rabbit), 332
  E_1 (PGE_1), retinomotor movements and (teleost), 882
  $F_{2\alpha}$: IOP and, 1474
    multiple dosing, ocular histopathology and (monkey), 1428
  iris muscle tone and, 127
  synthesis: in lens cells, hypergalactosemia and (bovine), 1452
    retinal capillary pericyte (bovine), 1511
    trabecular meshwork, 1708
Protein kinase C
  in vitro RPE protein phosphorylation and (rat), 1794
  lacrimal gland protein secretion and (rat), 1726, 1732
Proteins
  distribution in mechanically dissociated rods (frog), 1012
  48K. *See* S-antigen

in lacrimal gland fluid (rabbit), 791
lacrimal gland secretion:
cAMP and calcium in (rat), 1732
phorbol esters and (rat), 1726
phosphorylation, in cultured RPE cells (rat), 1794
tear film, adsorption to contact lens material, 362
Proteoglycans. *See also* Glycosaminoglycans
cornea, water gradient and, 963
in developing corneal stroma (rabbit), 1413
keratan sulfate, in corneal scar, immunoanalysis (rabbit), 1116
RPE cell production, in retinitis pigmentosa, 720
Pseudomonas aeruginosa
adherence to cornea (rat), 379
ocular infection, monoclonal antibodies to *Pseudomonas aeruginosa* and (mice), 1277

R

Raman spectroscopy, disulfide and sulfhydryl in Emory mouse cataract, 823
Radioimmunoassay, topical epinephrine and intraocular prostaglandin E synthesis (rabbit), 332
Radionuclide studies, quantitation of ocular surface inflammation with indium-111-leukocytes (rabbit), 429
Renin, ocular, 1749
Restriction fragment length polymorphisms, in ornithine aminotransferase gene sequence, 1001
Retina
activity, eye growth and (chick), 311
adhesion: pigment adherence in, temperature and (rabbit), 1390
temperature, cAMP, cytochalasin and enzymes and (rabbit), 910
β-adrenergic binding sites in (bovine), 695
angiogenic extract, vascular endothelial cell prostacyclin release and (bovine), 1213
angiotensin converting enzyme in, 876
biopsy, research applications (animal), 2
blood flow: galactosemia and (rat), 861
measurement, blood vessel diameter and, 1258
blood vessels: β-adrenergic binding sites (bovine), 695
angiotensin converting enzyme in, 876
diameter measurement via computerized image analysis, 1258
carotenoids in, 850
cell culture, growth of neurons and photoreceptors in (mouse), 534
development, constant light exposure and (goldfish), 27
absolute visual threshold, 37
dopamine receptors, 687
drug and dye delivery to, method for, 1179
effects of copper vapor laser (rabbit), 528
explant cultures, neurons in, 1372
ganglion cells: carbon disulfide exposure and, 519
ischemia and (cat), 558
loss of, in albino avian glaucoma, 901
glutathione peroxidase activity, 149
glutathione-S-transferase activity, 149
grafts, donor age and (rat), 498
histamine synthesis, in diabetic rat, 1201
hypoxia, ERG and (cat), 700
image stabilization, oscillopsia in congenital nystagmus and, 279
ischemia: method for oxygen delivery to (cat), 298
reperfusion and cell proliferation following (rat), 1050
Müller cells. *See* Müller cells
oxygen flux (rabbit), 988
peptide-immunoreactive neurons in, 680
pericyte, prostaglandin synthesis (bovine), 1511
photoreceptors. *See* Photoreceptors
plasma shielding, during laser therapy, 437
S-antigen. *See* S-antigen
vascular permeability, galactosemia and (rat), 861
visual pigment distribution and regeneration (cat), 1056
vitamins E and C in, in mature and premature infants, 22
Retinal artery occlusion, oxygen supply during (cat), 298
Retinal degeneration
hereditary, phosphodiesterase-immunoreactive polypeptide from rods in (mouse), 1021
Müller cell glial fibrillary acidic protein in (animal), 1363
Retinal detachment
local ERG in (rabbit), 1040
nonrhegmatogenous, subretinal fluid absorption in (rabbit), 1255
subretinal fluid reabsorption, RPE and (monkey), 1652
Retinal dystrophy, RPE plasma membrane in (rat), 1066
Retinal pigment epithelium (RPE)
adhesion to retina (rabbit), 910
pigment adherence in, temperature and (rabbit), 1390
α_1-adrenergic receptors (rabbit), 737
aging in vitro, (bovine), 1784
cathepsin D activity, regional comparisons (bovine), 1787
cellular proteoglycans, in retinitis pigmentosa, 720
degradative enzymes, vectorial accumulation of, age and, 1205
fluid transport across, 1947
interaction with photoreceptors, light peak in DC ERG/EOG and (chick), 566
in vitro protein phosphorylation (rat), 1794
mannose 6-phosphate receptors on (rat), 291
mannose receptors on (rat), 742
phagocytosis, 291
fate of immunoreactive opsin in, 708
fate of rhodopsin in, 708
mannose receptors in (rat), 742
plasma membrane, in retinal dystrophy (dog), 1066
retinal biopsy and (animal), 2
retinomotor movements in cells, prostaglandins and (teleost), 882
rod outer segment binding to, rhodopsin and, 419
scanning electron microscopy (rat), 1380
subretinal fluid absorption and (rabbit), 1255
in retinal detachment (monkey), 1652
transepithelial transport properties (rabbit), 814
volume flow across (monkey), 1652
Retinitis pigmentosa
autosomal dominant, visual threshold and rhodopsin levels in, 1235
dominant, rod ERG diurnal rhythm in, 494
retina and interphotoreceptor matrix proteins in, 1585
retinal metabolic abnormalities in, 2
RPE cell proteoglycans production in, 720
Retinoblastoma
enucleation in, egocenter and, 1348
Y-79 cell line culture, laminin effect on attachment, growth and differentiation, 1517
Retinochoroiditis, toxoplasmic, in immunosuppressed monkey, 835
13-*cis*-Retinoic acid. *See* Isotretionoin
Retinoid-binding protein, interphotoreceptor matrix, retinitis pigmentosa and, 1585
Retinol. *See* Vitamin A
Retinopathy
diabetic. *See* Diabetic retinopathy
oxygen-induced, ERG in (rat), 1623
proliferative, retinal ischemia and, 1050

Retinopathy of prematurity
glutathione peroxidase and glutathione-S-transferase activity in, 149
retinal vitamin E and C distribution in, 22
Rhino mouse, meibomian gland changes in, 1190
Rhodamine, intraocular fluorescence spectra, 1285
Rhodopsin
in autosomal dominant retinitis pigmentosa, 1235
distribution and regeneration (cat), 1056
outer segment phagocytosis by RPE cells and, 708
and rod outer segment binding to RPE (bovine), 419
Rod-cone dysplasia, S-antigen in (dog), 1594
Rods. *See* Photoreceptors

S

Saccades
latency, afferent visual conductivity and, 1331
monocular adaptation (monkey), 1339
Saliva, viral antibodies in, 1552
S-antigen
epitopes, monoclonal antibody studies, 12
FK506 and, 1265
immunolocalization in rods (toad), 1221
lymphocyte lines and clones with specificity to, 1636
in retinitis pigmentosa, 1585
in rod-cone dysplasia (dog), 1594
-specific T lymphocyte lines, adoptive transfer of experimental autoimmune uveitis and, 411
Scanning electron microscopy (SEM)
corneal fibroblast network structure (rat), 1887
effect of sodium hyaluronate on corneal epithelium (chick), 194
high resolution, RPE and Bruch's membrane (rat), 1380
Scanning ocular spectrofluorophotometer, 1285
Scheimpflug biometry, 1826
Scheimpflug camera
biometry of anterior chamber, 1826
photograding of nuclear cataract, 73
Schwann cells, in leprosy (armadillo), 140
Sclera
complement in, 1756
fibroblast proliferation, heparin and, 1272
Scotoma
macular, eccentric fixation in, 268
simulated, visual search and, 470
Scotopic threshold response, 1608, 1615
Selenite, cortical cataract and, histologic changes (rat), 1418
Sialoglycoproteins, rod outer segment plasma membrane (frog), 1523
Silicone oil, replacement of vitreous, ERG and, 1881
Sjögren's syndrome, murine model, 1437
Slit lamp, in photograding of nuclear cataract, 73
Sodium hyaluronate, corneal epithelial effects (chick), 194
Somatostatin, immunoreactive neurons, retina, 680
Sorbinil
galactose inhibition of prostaglandin synthesis in lens cells and (bovine), 1452
galactosemia-induced changes in blood flow and vascular permeability and (rat), 861
Spatial imprecision, in amblyopia, contrast sensitivity and, 323
Spectacles, telescopic, for low-vision, dynamic visual acuity and, 1179
Spectrophotometry, scanning ocular spectrofluorophotometer, 1285
Specular microscopy, corneal endothelial wound healing after minor trauma (rabbit), 1677
Spiroperidol, binding sites in retina, 689
S-100 protein, in cultured Müller cells (rabbit), 892
Stem cell, goblet cells and (rat), 969
Steropsis, binocular summation and, 283
Strabismus
spatial imprecision in, 323
suppression and, 444
vertical effect, LGN X-cells and (cat), 644
Subretinal fluid, absorption of, metabolic influences (rabbit), 1255
Substance P immunoreactive neurons
corneal (chick), 101
retina, 680
Sulfhydryl, in lens (mouse), 823
Sunlight. *See* Ultraviolet radiation
Suppression, amblyopia and, 444
Sympathetic activation, dark focus and, 1168
Sympathetic innervation, accommodation and, 460
Sympathetic ophthalmia, lymphokines in, 1444

T

Taxol, trabecular cell cytoskeleton and, 251
Tear film
osmolarity, in keratoconjunctivitis sicca (rabbit), 374
proteins, adsorption to contact lens materials, 362
Tears, viral antibodies in, 1552
Temperature, retina-RPE adhesion and (rabbit), 910, 1390
β-Thromboglobulin, in diabetic retinopathy, 856
Timolol
aqueous humor flow and (monkey), 1498
iontophoresis, HSV-1 reactivation (rabbit), 387
long-term therapy, in glaucoma suspect, light sensitivity and, 1478
prodrugs. *See O*-Butyryl timolol
systemic adsorption, *O*-butyryl timolol administration and (rabbit), 626
Tissue culture
corneal endothelium, long-term cultivation, 1656
growth characteristics of corneal epithelial vs limbal cells, 1533
lens epithelium, cell communication, 1713
retinal neurons, 1372
T lymphocyte lines, S-antigen specific, adoptive transfer of experimental autoimmune uveitis and, 411
T lymphocytes, in trigeminal ganglia, corneal HSV infection and (rabbit), 1683
Tobramycin iontophoresis, transcorneal (rabbit), 1397
Tonic vergence, stability of, 1577
Toxoplasma gondii, 1871
Toxoplasmosis, coular
in immunosuppressed monkey, 835
pathogenesis (guinea pig), 1871
Trabecular meshwork
arachidonic acid metabolism, 1708
cellular intermediate filaments, 244
cytoskeletal characteristics and drug response, 251
extracellular matrix, corneoscleral explant organ culture study, 90
hydraulic conductivity, in vitro system for measuring, 1836
hydrogen peroxide removal via (calf), 976
lens displacement and, 1159
plasminogen activator in, 401
Trabeculotomy, short-pulsed Nd:YAG laser, morphologic study, 1698
Trachoma, vaccine (monkey), 1847
Transdifferentiation. *See* Ocular surface
α-Transducin, retinal, retinitis pigmentosa and, 1585

Transendothelial electrical potential difference, cornea stored in media containing chondroitin sulfate, 657
Transferrin, corneal endothelial cell proliferation and, 755
Transplantation
  corneal, 208, 933. *See also* Allograft, corneal; Corneal transplantation
  retinal (rat), 498
Trauma, minor, corneal endothelial changes in, 1677
Trigeminal ganglia
  HSV-1 replication and latency in (mice), 232
  T lymphocytes in, during corneal HSV infection (rabbit), 1683

U

Ulcers/ulceration, corneal, alkali-induced, topical citrate and (rabbit), 1110
Ultraviolet radiation, ocular toxicity, 649
Uveal tract, melanoma, metastatic potential, 507
Uveitis
  anterior acute, in Dutch population, HLA-B27 subtypes and, 1137
  experimental autoimmune. *See* Autoimmune uveitis, experimental
  lymphokines in, 1444
  S-antigen in, 1636
  vitreous humor anaphylatoxins in, 1195

V

Vanadate, calcium-stimulated ATPase in ciliary body and (rabbit), 1866
Vascular permeability
  in galactosemia, sorbinil and (rat), 861
  ocular inflammation and (rabbit), 429
Vascular system, ocular, drug and dye delivery to, method for, 1179
Vasoactive intestinal polypeptide, immunoreactive neurons, retina, 680
Vasoconstriction, episcleral hypothermia and, 138
Vergence
  dark, arousal and, 1168
  tonic, stability of, 1577
  voluntary effort and, 1739
Vertical effect, in strabismus, LGN X-cells and (cat), 644
Vestibulo-ocular reflex, monocular adaptation (monkey), 1339
Videographic reflectometry, optic disc pallor, 320
Videography, optic nerve topography in glaucoma, 1294
Vimentin
  in cultured Müller cells (rabbit), 892
  in trabecular cell intermediate filaments, 244
Vision
  development, in infants, 44
  low. *See* Low-vision
Visual acuity
  carbon disulfide exposure and (monkey), 512
  development, in infantile esotropia, 327
  dynamic, telescopic spectacles and, 1184
  loss, macular scotoma, eccentric fixation in, 268
  monocular acuity deficit in pediatric patient, criteria for, 636
Visual direction, enucleation and, 1348
Visual evoked cortical potentials, in dissociated vertical deviation, 1165
Visual evoked potentials (VEP)
  acuity in infantile esotropia, 327
  body position and IOP and, 1492
  in infant, 44
  latency, afferent visual conductivity and, 1331
Visual evoked response, pattern reversal, check size, number of elements and stimulus field size and, 922
Visual fields
  assessment, in infants, new perimetric technique, 452
  central; short-term fluctuation, 795
    SWS cone sensitivity, in glaucoma and ocular hypertension, 64
  central scotoma, eccentric fixation in, 268
  coordinates, development of (kitten), 1299
Visual pigment, distribution and regeneration (cat), 1056
Visual search, simulated scotoma and, 470
Visual threshold
  absolute, lighting condition during rearing and (goldfish), 37
  in autosomal dominant retinitis pigmentosa, 1235
  variability with Dicon AP 2000, 915
Vitamin A deficiency
  ocular surface epithelial response in corneal wound and (rabbit), 1671
  plasminogen activator activity and delayed corneal wound healing in (rat), 1810
Vitamin C, regional distribution in mature and premature infant retina, 22
Vitamin E, regional distribution in mature and premature infant retina, 22
Vitrectomy, silicone oil replacement in, ERG and, 1881
Vitreous, persistent hyperplastic primary (dog), 1076
Vitreous humor, complement (anaphylatoxins) in, 1195
Voluntary effort, accommodation and vergence and, 1739

W

Water, corneal (bovine), 963
Water transport
  ciliary epithelium, Na-K ATPase and, 606
  epithelial, metabolic influences, 1255
Wound healing
  corneal: endothelial changes following minor trauma (rabbit), 1677
    endothelial morpho-functional relations (cat), 1100
    endothelial morphology (cat), 1407
    fibronectin in (rat), 572
    keratan sulfate proteoglycans in (rabbit), 1116
    plasminogen activator in, vitamin A deficiency and (rat), 1810
    Pseudomonas adherence and, 379
    type VI collagen in (rabbit), 760
  ocular surface, retinol deficiency and (rabbit), 1671
  type III collagen in (rabbit), 767

X

X-cells, lateral geniculate nucleus, and vertical effect in strabismus (cat), 644
Xylazine, ketamine plus, corneal lesions from (rat), 949

Z

Zeaxanthin, retinal distribution, 843, 850

Author Index to Volume 29

A

Aaberg, T. M.: On Presentation of the Proctor Medal of the Association for Research in Vision and Ophthalmology to Dr. Robert Machemer, 1766
Abghari, S. Z., Stulting, R. D.: Recovery of Herpes Simplex Virus From Ocular Tissues of Latently Infected Inbred Mice, 239
Acott, T. S., Kingsley, P. D., Samples, J. R., Van Buskirk, E. M.: Human Trabecular Meshwork Organ Culture: Morphology and Glycosaminoglycan Synthesis, 90
Adams, A. J.: *see* Heron et al, 64
Adler, A. J.: *see* Schmidt et al, 1585
Adler, R.: *see* Politi et al, 534
Aguirre, G.: *see* Long et al, 1594
Aitken, D., Friend, J., Thoft, R. A., Lee, W. R.: An Ultrastructural Study of Rabbit Ocular Surface Transdifferentiation, 224
Alder, V. A.: *see* Ben-Nun et al, 298; Cringle et al, 1044
Alvarado, J.: *see* Fulcher et al, 755; Ryder et al, 251
Alvarado, J. A.: *see* Perkins et al, 1836; Shuman et al, 401; Weinreb et al, 1708
Anderson, D. R.: *see* Desjardins et al, 915; Ferrari-Dileo et al, 876; Richards et al, 1826
Anderson, P. J.: *see* Nguyen et al, 976
Anderson, R. E.: *see* Naash et al, 149; Nielsen et al, 22
Anderson, R. S., Trune, D. R., Shearer, T. R.: Histologic Changes in Selenite Cortical Cataract, 1418
Araie, M., Shirasawa, E., Hikita, M.: Effect of Oxidized Glutathione on the Barrier Function of the Corneal Endothelium, 1884
Aramant, R., Seiler, M., Turner, J. E.: Donor Age Influences on the Success of Retinal Grafts to Adult Rat Retina, 498
Assia, E.: *see* Landshman et al, 1100
Atherton, S. S.: *see* Hamasaki et al, 1242

B

Baggs, R. B.: *see* Guillet et al, 949
Bakalian, A. E.: *see* Rosenthal et al, 649
Baker, A. K.: *see* Dartt et al, 1732
Baker, H. J.: *see* Nowakowski et al, 487
Baldwin, J. J.: *see* Sugrue et al, 776
Balkema, G. W.: Elevated Dark-Adapted Thresholds in Albino Rodents, 544
Bando, M.: *see* DeNagel et al, 823
Banga, J. P., LeRoy, F., Suleyman, S., Kasp, E., Brown, E., Dumonde, D.: Analysis of Antigenic Determinants of Retinal S-Antigen With Monoclonal Antibodies, 12
Barbeito, R., Bedell, H. E., Flom, M. C.: Does Impaired Contrast Sensitivity Explain the Spatial Uncertainty of Amblyopes, 323
Barrett, R.: *see* Moon et al, 1277
Bartels, S. P.: Aqueous Humor Flow Measured With Fluorophotometry in Timolol-Treated Primates, 1498
Baruzzi, C. M.: *see* Sandberg et al, 494
Barza, M.: *see* Spurr-Michaud et al, 379
Bassi, C. J.: *see* Powers et al, 37; Raymond et al, 27
Bedell, H. E.: *see* Barbeito et al, 323
Bee, J. A., Kuhl, U., Edgar, D., Von der Mark, K.: Avian Corneal Nerves: Co-Distribution With Collagen Type IV and Acquisition of Substance P Immunoreactivity, 101
Bekhor, I.: MP26 Messenger RNA Sequences in Normal and Cataractous Lens: A Molecular Probe For Abundance and Distribution of a Fiber Cell-Specific Gene Product, 802
Belkin, M.: *see* Landshman et al, 1100
Ben-Chaim, O.: *see* Landshman et al, 1100
Ben-Hanan, I.: *see* Landshman et al, 1100
Ben-Nun, J., Alder, V. A., Cringle, S. J., Constable, I. J.: A New Method For Oxygen Supply to Acute Ischemic Retina, 298
Ben-Sira, I.: *see* Gabay et al, 528
Berk, R. S.: *see* Moon et al, 1277
Berman, E. R.: *see* Feeney-Burns et al, 708
Berman, M.: *see* Hayashi et al, 1810
Berman, M. B.: *see* Nishida et al, 1820
Berson, E. L.: *see* Sandberg et al, 494; Schmidt et al, 1585
Bertera, J. H.: The Effect of Simulated Scotomas on Visual Search in Normal Subjects, 470
Bettelheim, A. A.: *see* Castoro et al, 963
Bettelheim, F. A.: *see* Castoro et al, 963
Beuerman, R.: *see* Rootman et al, 1397
Bickler-Bluth, M.: *see* Trick et al, 1486
Birch, E. E., Hale, L. A.: Criteria For Monocular Acuity Deficit in Infancy and Early Childhood, 636
Bird, A. C., Farber, D. B., Kreiger, A. E., Straatsma, B. R., Bok, D.: The Potential Usefulness to Research of Retina Obtained by Biopsy, 2
Bird, A. C., Flannery, J. G., Bok, D.: A Diurnal Rhythm in Opsin Content of *Rana pipiens* Rod Inner Segments, 1028
Birk, D. E.: *see* Fitch et al, 1125
Bizios, R.: *see* Del Vecchio et al, 1272
Blake, R.: *see* Holopigian et al, 444; Rose et al, 283
Boevé, M. H., Van der Linde-Sipman, T., Stades, F. C.: Early Morphogenesis of Persistent Hyperplastic Tunica Vasculosa Lentis and Primary Vitreous: The Dog as an Ontogenetic Model, 1076
Bohnert, J. L., Horbett, T. A., Ratner, B. D., Royce, F. H.: Adsorption of Proteins From Artificial Tear Solutions to Contact Lens Materials, 362
Böhnke, M.: *see* Engelmann et al, 1656
Bok, D.: *see* Bird et al, 2, 1028; Usukura et al, 606
Bone, R. A., Landrum, J. T., Fernandez, L., Tarsis, S. L.: Analysis of the Macular Pigment by HPLC: Retinal Distribution and Age Study, 843
Borchman, D., Delamere, N. A., Paterson, C. A.: Ca-ATPase Activity in the Rabbit and Bovine Lens, 982
Bourne, W. M.: *see* Carlson et al, 185; Wilson et al, 357
Boylan, C., Clement, R. A., Howrie, A.: Normal Visual Pathway Routing in Dissociated Vertical Deviation, 1165
Boynton, R. M.: *see* Sample et al, 1306
Brandt, J. T.: *see* Schmidt et al, 1585
Braunagel, S. C., Organisciak, D. T., Wang, H.-M.: Characterization of Pigment Epithelial Cell Plasma Membranes From Normal and Dystrophic Rats, 1066
Brawman-Mintzer, O., Mondino, B. J., Mayer, F. J.: The Complement System in Sclera, 1756

Brecha, N. C.: *see* Fain et al, 785
Brigell, M. G., Goodwin, J. A., Lorance, R.: Saccadic Latency as a Measure of Afferent Visual Conduction, 1331
Britt, J. M., Mills, R. P.: The Black Hole Effect in Perimetry, 795
Brown, B. M.: *see* Lee et al, 1021
Brown, E.: *see* Banga et al, 12
Brubaker, R. F.: *see* Carlson et al, 185; Herman et al, 133; Larson et al, 621; McLaren et al, 1285; Wilson et al, 357
Bucci, M. G.: *see* Siliprandi et al, 558
Budd, J.: *see* Whittaker et al, 268
Buisseret P.: *see* Milleret et al, 1299
Bundgaard, H.: *see* Chang et al, 626
Bunt-Milam, A. H.: *see* Spencer et al, 1012
Burke, J. M., Soref, C.: Topographical Variation in Growth in Cultured Bovine Retinal Pigment Epithelium, 1784
Burke, J. M., Twining, S. S.: Regional Comparisons of Cathepsin D Activity in Bovine Retinal Pigment Epithelium, 1789
Burns, L. A.: *see* Porter et al, 163
Burnside, B.: *see* Cavallaro et al, 882
Burris, T.: *see* Fulcher et al, 755
Burton, M. D.: *see* Polans et al, 1523
Buur, A.: *see* Chang et al, 626

C

Cadera, W.: *see* Viirre et al, 1339
Caffery, B. E.: *see* Josephson et al, 1096
Caldwell, H. D.: *see* Taylor et al, 1847
Cameron, S. A.: *see* Lee et al, 1698
Cammarata, P. R., Jackson, T., Yorio, T.: Sorbinil Prevents the Galactose-Induced Inhibition of Prostaglandin Synthesis in Lens Cells, 1452
Campbell, M. A., Chader, G. J.: Effects of Laminin on Attachment, Growth and Differentiation of Cultured Y-79 Retinoblastoma Cells, 1517
Camras, C. B., Friedman, A. H., Rodrigues, M. M., Tripathi, B. J., Tripathi, R. C., Podos, S. M.: Multiple Dosing of Prostaglandin F_2A or Epinephrine on Cynomolgus Monkey Eyes: III. Histopathology, 1428
Candia, O. A.: *see* Chu et al, 594
Canella, R.: *see* Siliprandi et al, 558
Capecchi, J.: *see* Trinkaus-Randall et al, 393
Capone, A., Jr.: *see* El-Ghorab et al, 1671
Caprioli, J., Miller, J. M.: Videographic Measurements of Optic Nerve Topography in Glaucoma, 1294
Caprioli, M.: *see* Miller et al, 320
Carley, C. A.: *see* Hung et al, 1860
Carlson, E. C., Waring, G. O., III: Ultrastructural Analyses of Enzyme-Treated Microfibrils in Rabbit Corneal Stroma, 578
Carlson, K. H., Bourne, W. M., Brubaker, R. F.: Effect of Long-Term Contact Lens Wear on Corneal Endothelial Cell Morphology and Function, 185
Carmignoto, G.: *see* Siliprandi et al, 558
Carreras, B.: *see* García-Olivares et al, 108
Carroll, W. J., Hollis, T. M., Gardner, T. W.: Retinal Histamine Synthesis Is Increased in Experimental Diabetes, 1201
Caspi, R. R.: *see* Chan et al, 411
Castoro, J. A., Bettelheim, A. A., Bettelheim, F. A.: Water Gradients Across Bovine Cornea, 963
Cavallaro, B., Burnside, B.: Prostaglandins E_1, E_2, and D_2 Induce Dark-Adaptive Retinomotor Movements in Teleost Retinal Cones and RPE, 882
Cenedella, R. J.: *see* Kuszak et al, 261
Chader, G. J.: *see* Campbell et al, 1517; Ekström et al, 1363
Chakrapani, B.: *see* Giblin et al, 1312
Chan, C. C.: *see* Hooks et al, 1444
Chan, C.-C., Caspi, R. R., Roberge, F. G., Nussenblatt, R. B.: Dynamics of Experimental Autoimmune Uveoretinitis Induced by Adoptive Transfer of S-Antigen-Specific T Cell Line, 411
Chan, K. Y.: *see* Patton et al, 1087
Chang, K.: *see* Tilton et al, 861
Chang, S.-C., Bundgaard, H., Buur, A., Lee, V. H. L.: Low Dose O-Butyryl Timolol Improves the Therapeutic Index of Timolol in the Pigmented Rabbit, 626
Chauhan, B. C., Drance, S. M., Douglas, G. R.: The Effect of Long-Term Intraocular Pressure Reduction on the Differential Light Sensitivity in Glaucoma Suspects, 1478
Chiappino, M. L.: *see* Skorich et al, 1871
Chiba, K.: *see* Fukami et al, 1677
Chilbert, M.: *see* Lambrou et al, 995
Chino, Y. M., Kaplan, E.: Abnormal Orientation Bias of LGN Neurons in Strabismic Cats, 644
Chu, T.-C., Candia, O. A.: Active Transport of Ascorbate Across the Isolated Rabbit Ciliary Epithelium, 594
Chung, M. L.: *see* Nguyen et al, 976
Cilluffo, M. C.: *see* Fain et al, 785, 817
Cintron, C., Hong, B.-S.: Heterogeneity of Collagens in Rabbit Cornea: Type VI Collagen, 760
Cintron, C., Hong, B.-S., Covington, H. I., Macarak, E. J.: Heterogeneity of Collagens in Rabbit Cornea: Type III Collagen, 767; *also see* Funderburgh et al, 1116; Gregory et al, 1413
Ciuffreda, K. J.: *see* Fisher et al, 1577; Hung et al, 1860
Clement, R. A.: *see* Boylan et al, 1165
Cole, P. W.: *see* Howes et al, 429
Conrad, G. W.: *see* Funderburgh et al, 1116
Constable, I. J.: *see* Ben-Nun et al, 298
Cook, D. J.: *see* Ortiz et al, 138
Cooper, D. G.: *see* Trick et al, 1486
Cosgrove, Y. T.: *see* Patton et al, 1087
Covington, H. I.: *see* Cintron et al, 767; Funderburgh et al, 1116; Gregory et al, 1413
Coyle, P. K., Sibony, P. A.: Viral Antibodies in Normal Tears, 1552
Cringle, S. J., Alder, V. A.: An Explanation of the "Supernormal" B-Wave In Vitro, 1044; *also see* Ben-Nun et al, 298
Cruse, V. K.: *see* Howes et al, 429
Csukas, S. C., Green, K.: Effects of Intracameral Hydrogen Peroxide in the Rabbit Anterior Chamber, 335
Cummings, M. F.: *see* Mayer et al, 452
Cummings, R. W.: *see* Whittaker et al, 268

D

Daigle, J. A.: *see* Opremcak et al, 749
Damle, S. P.: *see* Gregory et al, 1413
Dartt, D. A., Baker, A. K., Rose, P. E., Murphy, S. A., Ronco, L. V., Unser, M. F.: Role of Cyclic AMP and Ca^{2+} in Potentiation of Rat Lacrimal Gland Protein Secretion, 1732
Dartt, D. A., Matkin, C., Gray, K.: Comparison of Proteins in Lacrimal Gland Fluid Secreted in Response to Different Stimuli, 991
Dartt, D. A., Ronco, L. V., Murphy, S. A., Unser, M. F.: Effect of Phorbol Esters on Rat Lacrimal Gland Protein Secretion, 1726
Davis, E. B.: *see* Ferrari-Dileo et al, 876
Davis, M.: *see* Piccone et al, 330
Day, R. P.: *see* Sramek et al, 1749
Day, S. H., Orel-Bixler, D. A., Norcia, A. M.: Abnormal Acuity Development in Infantile Esotropia, 327
Del Vecchio, P. J., Bizios, R., Holleran, L. A., Judge, T. K., Pinto, G. L.: Inhibition of Human Scleral Fibroblast Proliferation With Heparin, 1272

Delamere, N. A.: *see* Borchman et al, 982; Socci et al, 1866
Dell, S. J.: *see* Penn et al, 1623
Dell'Osso, L. F.: *see* Leigh et al, 279
Demer, J. L., Porter, F. I., Goldberg, J., Jenkins, H. A., Schmidt, K.: Dynamic Visual Acuity With Telescopic Spectacles: Improvement With Adaptation, 1184
DeNagel, D. C., Bando, M., Yu, N.-T., Kuck, J. F. R., Jr.: A Raman Study of Disulfide and Sulfhydryl in the Emory Mouse Cataract, 823
Derhaag, P. J. F. M., de Waal, L. P., Linssen, A., Feltkamp, T. E. W.: Acute Anterior Uveitis and HLA-B27 Subtypes, 1137
Desaki, J.: *see* Nishida et al, 1887
Desjardins, D., Anderson, D. R.: Threshold Variability With an Automated LED Perimeter, 915
Detrick, B.: *see* Hooks et al, 1444
Detwiler, P. B.: *see* Spencer et al, 1012
de Waal, L. P.: *see* Derhaag et al, 1137
Diaz, R. F.: *see* Holland et al, 835
Dix, R. D.: *see* Hamasaki et al, 1242
Docchio, F., Sacchi, C. A.: Shielding Properties of Laser-Induced Plasmas in Ocular Media Irradiated by Single Nd:YAG Pulses of Different Durations, 437
Donnelly, J. J., Xi, M.-S., Haldar, J. P., Hill, D. E., Lok, J. B., Khatami, M., Rockey, J. H.: Autoantibody Induced by Experimental *Onchocerca* Infection: Effect of Different Routes of Administration of Microfilariae and of Treatment With Diethylcarbamazine Citrate and Invermectin, 827; *also see* Semba et al, 1642
Doslak, M. J.: A Theoretical Study of the Effect of Silicone Oil on the Electroretinogram, 1881
Doughty, M. J., Maurice, D.: Bicarbonate Sensitivity of Rabbit Corneal Endothelium Fluid Pump In Vitro, 216
Douglas, G. R.: *see* Chauhan et al, 1478
Drance, S. M.: *see* Chauhan et al, 1478
Dratz, E. A.: *see* Handelman et al, 850
Dreizen, N. G., Whitsett, C. F., Stulting, R. D.: Modulation of HLA Antigen Expression on Corneal Epithelial and Stromal Cells, 933
Dumonde, D.: *see* Banga et al, 12
Duncan, G.: *see* Stewart et al, 1713
Dunkel, E. C.: *see* Rong et al, 928
Dutton, G. N.: *see* Lee et al, 1698

E

Eades, D.: *see* Tilton et al, 861
Eaton, A. M., Hatchell, D. L.: Measurement of Retinal Blood Vessel Width Using Computerized Image Analysis, 1258
Ebato, B., Friend, J., Thoft, R. A.: Comparison of Limbal and Peripheral Human Corneal Epithelium in Tissue Culture, 1533
Edelhauser, H. F.: *see* Meyer et al, 940
Edgar, D.: *see* Bee et al, 101
Edney, D. P.: *see* Porter et al, 163
Edwards, R. B.: *see* Schmidt et al, 1585
Ehinger, B.: *see* Tornqvist et al, 680
Ehrlich, E. N.: *see* Sramek et al, 1749
Ekström, P., Sanyal, S., Narfström, K., Chader, G. J., Van Veen, T.: Accumulation of Glial Fibrillary Acidic Protein in Müller Radial Glia During Retinal Degeneration, 1363
El-Ghorab, M., Capone, A., Jr., Underwood, B. A., Hatchell, D., Friend, J., Thoft, R. A.: Response of Ocular Surface Epithelium to Corneal Wounding in Retinal-Deficient Rabbits, 1671
Endo, E. G., Yao, X.-Y., Marmor, M. F.: Pigment Adherence as a Measure of Retinal Adhesion: Dependence on Temperature, 1390
Eng, C. T.: *see* Lee et al, 1692
Engelmann, K., Böhnke, M., Friedl, P.: Isolation and Long-Term Cultivation of Human Corneal Endothelial Cells, 1656
Enger, C.: *see* McGuigan et al, 112
Epstein, D. L.: *see* Nguyen et al, 976; Rosenquist et al, 1159
Erez, G.: *see* Gabay et al, 528
Erickson-Lamy, K. A., Kaufman, P. L.: Effect of Cholinergic Drugs on Outflow Facility After Ciliary Ganglionectomy, 491
Erickson-Lamy, K. A., Kaufman, P. L., Polansky, J. R.: Dissociation of Cholinergic Supersensitivity From Receptor Number in Ciliary Muscle, 600
Ernest, J. T.: January 1, 1988, 1
Eskin, T. A., Merigan, W. H., Wood, R. W.: Carbon Disulfide Effects on the Visual System: II. Retinogeniculate Degeneration, 519; *also see* Merigan et al, 512
Esterson, F. D.: *see* Sample et al, 1306

F

Fain, G. L., Cilluffo, M. C., Fain, M. J., Lee, D. A.: Isolation of Non-Pigmented Epithelial Cells From Rabbit Ciliary Body, 817
Fain, G. L., Smolka, A., Cilluffo, M. C., Fain, M. J., Lee, D. A., Brecha, N. C., Sachs, G.: Monoclonal Antibodies to the H^+-K^+ ATPase of Gastric Mucosa Selectively Stain the Non-Pigmented Cells of the Rabbit Ciliary Body Epithelium, 785; *also see* Usukura et al, 606
Fain, M. J.: *see* Fain et al, 785, 817
Fang, P.: *see* Hung et al, 1860
Farber, D. B.: *see* Bird et al, 2
Faulkner, D. J.: *see* Kemp et al, 1056, 1235
Feeney-Burns, L., Gao, C.-L., Berman, E. R.: The Fate of Immunoreactive Opsin Following Phagocytosis by Pigment Epithelium in Human and Monkey Retinas, 708
Feltkamp, T. E. W.: *see* Derhaag et al, 1137
Fernandez, L.: *see* Bone et al, 843
Ferrari-Dileo, G.: $Beta_1$ and $Beta_2$ Adrenergic Binding Sites in Bovine Retina and Retinal Blood Vessels, 695
Ferrari-Dileo, G., Ryan, J. W., Rockwood, E. J., Davis, E. B., Anderson, D. R.: Angiotensin-Converting Enzyme in Bovine, Feline, and Human Ocular Tissues, 876
Fischbarg, J.: *see* Koniarek et al, 657
Fischer, M. J.: *see* Rootman et al, 1397
Fisher, S. K., Ciuffreda, K. J., Tannen, B., Super, P.: Stability of Tonic Vergence, 1577
Fitch, J. M., Birk, D. E., Mentzer, A., Hasty, K. A., Mainardi, C., Linsenmayer, T. F.: Corneal Collagen Fibrils: Dissection With Specific Collagenases and Monoclonal Antibodies, 1125
Flannery, J. G.: *see* Bird et al, 1028
Flom, M. C.: *see* Barbeito et al, 323
Flores, A.: *see* Nicolaides et al, 482
Foster, C. S.: *see* Millin et al, 232; Opremcak et al, 749
Foulds, W. S.: *see* Wakakura et al, 892
Frambach, D. A., Valentine, J. L., Weiter, J. J.: Alpha-1 Adrenergic Receptors on Rabbit Retinal Pigment Epithelium, 737
Frambach, D. A., Valentine, J. L., Weiter, J. J.: Initial Observations of Rabbit Retinal Pigment Epithelium-Choroid-Sclera Preparations, 814
Frangieh, G.: *see* Hayashi et al, 1810
Franzblau, C.: *see* Trinkaus-Randall et al, 393, 1800
Friedl, P.: *see* Engelmann et al, 1656
Friedman, A. H.: *see* Camras et al, 1428

Friend, J.: *see* Aitken et al, 224; Ebato et al, 1533; El-Ghorab et al, 1671
Fujino, Y.: *see* Kawashima et al, 1265
Fukami, H., Laing, R. A., Tsubota, K., Chiba, K., Oak, S. S.: Corneal Endothelial Changes Following Minor Trauma, 1677
Fulcher, S., Lui, G., Houston, L. L., Ramakrishnan, S., Burris, T., Polansky, J., Alvarado, J.: Use of Immunotoxin to Inhibit Proliferating Human Corneal Endothelium, 755
Fulton, A. B.: *see* Mayer et al, 452
Funderburgh, J. L., Cintron, C., Covington, H. I., Conrad, G. W.: Immunoanalysis of Keratan Sulfate Proteoglycan From Corneal Scars, 1116
Fung, B. K.-K.: *see* Lee et al, 1021

G

Gabay, S., Kremer, I., Ben-Sira, I., Sagie, D., Weinberger, D., Erez, G.: The Retinal Effects of Copper Vapor Laser Exposure, 528
Gallardo, J. M.: *see* García-Olivares et al, 108
Gallemore, R. P., Griff, E. R., Steinberg, R. H.: Evidence in Support of a Photoreceptoral Origin For the "Light-Peak Substance", 566
Gamel, J. W.: *see* McLean et al, 507
Gao, C.-L.: *see* Feeney-Burns et al, 708
García-Olivares, E., Carreras, B., Gallardo, J. M.: Presence of Langerhans Cells in the Cornea of *Klebsiella* Keratoconjunctivitis Mice, 108
Gardner, T. W.: *see* Carroll et al, 1201
Gary, R. K., Jr., Woodward, D. F., Nieves, A. L., Williams, L. S., Gleason, J. G., Wasserman, M. A.: Characterization of the Conjunctival Vasopermeability Response to Leukotrienes and Their Involvement in Immediate Hypersensitivity, 119
Gary-Bobo, E.: *see* Milleret et al, 1299
Gautheron, P.: *see* Sugrue et al, 776
Gebhardt, B. M.: The Effect of Tissue Dose and Site of Grafting on Immunity to Corneal Allografts, 1663
Gebhardt, B. M., Hill, J. M.: T Lymphocytes in the Trigeminal Ganglia of Rabbits During Corneal HSV Infection, 1683; *also see* Newton et al, 208
Gery, I.: *see* Hirose et al, 1636; Long et al, 1594
Ghosh, S.: *see* Roth et al, 1544
Giblin, F. J., Schrimscher, L., Chakrapani, B., Reddy, V. N.: Exposure of Rabbit Lens to Hyperbaric Oxygen In Vitro: Regional Effects on GSH Level, 1312
Gieser, J.: *see* Wakabayashi et al, 1615
Gilbard, J. P., Rossi, S. R., Gray, K. L., Hanninen, L. A., Kenyon, K. R.: Tear Film Osmolarity and Ocular Surface Disease in Two Rabbit Models For Keratoconjunctivitis Sicca, 374
Gipson, I. K.: *see* Spurr-Michaud et al, 379; Tisdale et al, 727
Glaser, B. M.: *see* Kuwashima et al, 1213
Glasgow, B. J.: *see* Lee et al, 1692
Gleason, J. G.: *see* Gary et al, 119
Goldberg, J.: *see* Demer et al, 1184
Gonzalez, J. R.: *see* Rootman et al, 1397
Goodwin, J. A.: *see* Brigell et al, 1331
Graeber, J.: *see* Kuwashima et al, 1213
Gray, K.: *see* Dartt et al, 991
Gray, K. L.: *see* Gilbard et al, 374
Green, K.: *see* Csukas et al, 335
Greenwald, M. J.: *see* Holopigian et al, 444
Gregory, J. D., Damle, S. P., Covington, H. I., Cintron, C.: Developmental Changes in Proteoglycans of Rabbit Corneal Stroma, 1413
Griff, E. R.: *see* Gallemore et al, 566
Grove, J.: *see* Sugrue et al, 776
Guillet, R., Wyatt, J., Baggs, R. B., Kellogg, C. K.: Anesthetic-Induced Corneal Lesions in Developmentally Sensitive Rats, 949
Gusek, G. C.: *see* Jonas et al, 1151

H

Hackett, J.: *see* Tisdale et al, 727
Haddox, J. L.: *see* Pfister et al, 869, 955, 1110
Hageman, G. S.: *see* Johnson et al, 550
Haldar, J. P.: *see* Donnelly et al, 827
Hale, L. A.: *see* Birch et al, 636
Halpern, D. L.: *see* Rose et al, 283
Hamasaki, D. I., Dix, R. D., Atherton, S. S.: Bilateral Alterations of the ERG and Retinal Histology Following Unilateral HSV-1 Inoculation, 1242
Hamer, R. D.: *see* Norcia et al, 44
Hancock, R. E. W.: *see* Moon et al, 1277
Handelman, G. J., Dratz, E. A., Reay, C. C., Van Kuijk, J. G. M.: Carotenoids in the Human Macula and Whole Retina, 850
Hanninen, L. A.: *see* Gilbard et al, 374
Hanson, A. H., III: *see* Sandberg et al, 494
Harmon, G.: *see* Ortiz et al, 138
Harning, R., Szalay, J.: A Treatment for Metastasis of Murine Ocular Melanoma, 1505
Haruta, Y., Rootman, D. S., Hill, J. M.: Recurrent HSV-1 Corneal Epithelial Lesions Induced by Timolol Iontophoresis in Latently Infected Rabbits, 387; *also see* Rootman et al, 351
Hasty, K. A.: *see* Fitch et al, 1125
Hatano, H., Oh. J. O., Ou, K. H. T., Minasi, P.: Induction of Fc and C3b Receptors on Rabbit Corneal Cells by Herpes Simplex Virus, 1352
Hatchell, D.: *see* El-Ghorab et al, 1671
Hatchell, D. L.: *see* Eaton et al, 1258
Hayashi, K., Frangieh, G., Kenyon, K. R., Berman, M., Wolf, G.: Plasminogen Activator Activity in Vitamin A-Deficient Rat Corneas, 1810
Hazlett, L. D.: *see* Moon et al, 1277
Herman, D. C., McLaren, J. W., Brubaker, R. F.: A Method of Determining Concentration of Albumin in the Living Eye, 133
Hernandez, M. R., Igoe, F., Neufeld, A. H.: Cell Culture of the Human Lamina Cribrosa, 78
Heron, G., Adams, A. J., Husted, R.: Central Visual Fields For Short Wavelength Sensitive Pathways in Glaucoma and Ocular Hypertension, 64
Heth, C. A., Schmidt, S. Y.: Protein Phosphorylation in Cultured Rat RPE: Effects of Protein Kinase C Activation, 1794; *also see* Schmidt et al, 1585
Hewitt, A. T., Newsome, D. A.: Altered Proteoglycans in Cultured Human Retinitis Pigmentosa Retinal Pigment Epithelium, 720
Hikita, M.: *see* Araie et al, 1884; Miyake et al, 332
Hill, D. E.: *see* Donnelly et al, 827
Hill, J. M.: *see* Gebhardt et al, 1683; Haruta et al, 387; Rootman et al, 351, 1397
Hirose, S., McAllister, C. G., Mittal, K. K., Vistica, B. P., Shinohara, T., Gery, I.: A Cell Line and Clones of Lymphocytes From a Healthy Donor, With Specificity to S-antigen, 1636
Hirose, T.: *see* Katsumi et al, 922
Holden, B. A.: *see* Ling et al, 1407
Holland, G. N., O'Connor, G. R., Diaz, R. F., Minasi, P., Wara, W. M.: Ocular Toxoplasmosis in Immunosuppressed Nonhuman Primates, 835
Hollenberg, M. J., Lea, P. J.: High Resolution Scanning Electron

Microscopy of the Retinal Pigment Epithelium and Bruch's Layer, 1380
Holleran, L. A.: *see* Del Vecchio et al, 1272
Hollis, T. M.: *see* Carroll et al, 1201
Holopigian, K., Blake, R., Greenwald, M. J.: Clinical Suppression and Amblyopia, 444
Hong, B.-S.: *see* Cintron et al, 760, 767
Hooks, J. J., Chan, C. C., Detrick, B.: Identification of the Lymphokines, Interferon-gamma and Interleukin-2, in Inflammatory Eye Diseases, 1444
Horbett, T. A.: *see* Bohnert et al, 362
Horiguchi, M.: *see* Miyake et al, 1631
Hotta, Y.: *see* Inana et al, 1001
Houston, L. L.: *see* Fulcher et al, 755
Howes, E. L., Jr., Cole, P. W., Cruse, V. K., Pollycove, M.: Quantitation of Acute Experimental Ocular Inflammation With ^{111}Indium-Leukocytes, 429
Howrie, A.: *see* Boylan et al, 1165
Huang, A. J. W., Tseng, S. C. G., Kenyon, K. R.: Morphogenesis of Rat Conjunctival Goblet Cells, 969
Hudes G. R., Li, W., Rockey, J. H., White, P.: Prostacyclin Is the Major Prostaglandin Synthesized by Bovine Retinal Capillary Pericytes in Culture, 1511
Hung, G. K., Ciuffreda, K. J., Carley, C. A., Fang, P., Menditto, S.: Auditory Biofeedback to Control Vertical and Horizontal Eye Movements in the Dark, 1860
Husted, R.: *see* Heron et al, 64

I

Igoe, F.: *see* Hernandez et al, 78
Inana, G., Hotta, Y., Zintz, C., Takki, K., Weleber, R. G., Kennaway, N. G., Nakayasu, K., Nakajima, A., Shiono, T.: Expression Defect of Ornithine Aminotransferase Gene in Gyrate Atrophy, 1001
Inomata, H.: *see* Iwasaki et al, 671
Ireland, M. E., Maisel, H.: Isoproterenol Treatment Causes Cytoskeletal Reorganization in Chicken Lens Fiber Cells, 1356
Ito, Y.: *see* Yoshitomi et al, 127
Iwamoto, Y., Tamura, M.: Immunocytochemical Study of Intermediate Filaments in Cultured Human Trabecular Cells, 244
Iwasaki, M., Inomata, H.: Lipofuscin Granules in Human Photoreceptor Cells, 671

J

Jabs, D. A., Prendergast, R. A.: Murine Models of Sjögren's Syndrome: Immunohistologic Analysis of Different Strains, 1437
Jackson, T.: *see* Cammarata et al, 1452
Jacobson, S. G.: *see* Kemp et al, 1056, 1235
Jantzen, J. A.: *see* Rootman et al, 1397
Jenkins, H. A.: *see* Demer et al, 1184
Jerdan, J. A.: *see* Morrison et al, 1141
Jester, J. V., Rajagopalan, S., Rodrigues, M.: Meibomian Gland Changes in the Rhino ($hr^{rh}hr^{rh}$) Mouse, 1190
Johnson, L. V., Hageman, G. S.: Characterization of Molecules Bound by the Cone Photoreceptor-Specific Monoclonal Antibody CSA-1, 550
Johnson, M.: *see* Nguyen et al, 976
Jonas, J. B., Gusek, G. C., Naumann, G. O. H.: Optic Disc, Cup and Neuroretinal Rim Size, Configuration and Correlations in Normal Eyes, 1151
Josephson, J. E., Caffery, B. E.: Corneal Staining After Instillation of Topical Anesthetic (SSII), 1096
Judge, T. K.: *see* Del Vecchio et al, 1272
Jumblatt, J. E., North, G. T.: Cholinergic Inhibition of Adrenergic Neurosecretion in the Rabbit Iris-Ciliary Body, 615
Jumblatt, M. M., Matkin, E. D., Neufeld, A. H.: Pharmacological Regulation of Morphology and Mitosis in Cultured Rabbit Corneal Endothelium, 586
Juster, R.: *see* Perkins et al, 1836

K

Kaplan, E.: *see* Chino et al, 644
Kasp, E.: *see* Banga et al, 12
Katsumi, O., Hirose, T., Tsukada, T.: Effect of Number of Elements and Size of Stimulus Field on Recordability of Pattern Reversal Visual Evoked Response, 922
Kaufman, H. E.: *see* Newton et al, 208; Rootman et al, 351
Kaufman, P. L.: *see* Erickson-Lamy et al, 491, 600
Kaufmann, H.: *see* Simonsz et al, 1320
Kawano, S., Marmor, M. F.: Metabolic Influences on the Absorption of Serous Subretinal Fluid, 1255
Kawashima, H., Fujino, Y., Mochizuki, M.: Effects of a New Immunosuppressive Agent, FK506, on Experimental Autoimmune Uveoretinitis in Rats, 1265
Kay, E. P., Oh, S.: Modulation of Type III Collagen Synthesis in Bovine Corneal Endothelial Cells, 200
Kellogg, C. K.: *see* Guillet et al, 949
Kemp, C. M., Faulkner, D. J., Jacobson, S. G.: The Distribution and Kinetics of Visual Pigments in the Cat Retina, 1056
Kemp, C. M., Jacobson, S. G., Faulkner, D. J.: Two Types of Visual Dysfunction in Autosomal Dominant Retinitis Pigmentosa, 1235
Kennaway, N. G.: *see* Inana et al, 1001
Kenyon, K. R.: *see* Gilbard et al, 374; Hayashi et al, 1810; Huang et al, 969
Khan, A. R.: *see* Kuszak et al, 261
Khatami, M.: *see* Donnelly et al, 827
Khoobehi, B.: *see* Zeimer et al, 1179
Kilo, C.: *see* Tilton et al, 861
Kim, S. U., Takahashi, H.: Tissue Culture Study of Adult Human Retina Neurons, 1372
Kingsley, P. D.: *see* Acott et al, 90
King-Smith, P. E.: *see* Vingrys et al, 50
Kodama, T., Takemoto, L.: Characterization of Disulfide-Linked Crystallins Associated With Human Cataractous Lens Membranes, 145
Kohner, E. M.: *see* Plehwe et al, 663
Kolker, A. E.: *see* Trick et al, 1486
Kolling, G. H.: *see* Simonsz et al, 1320
Koniarek, J. P., Lee, H.-B., Rosskothen, H. D., Liebovitch, L. S., Fischbarg, J.: Use of Transendothelial Electrical Potential Difference to Assess the Chondroitin Sulfate Effect in Corneal Preservation Media, 657
Krachmer, J.: *see* Tisdale et al, 727
Kreiger, A. E.: *see* Bird et al, 2
Kremer, I.: *see* Gabay et al, 528
Krupin, T.: *see* Piccone et al, 330; Wallace et al, 406
Kuck, J. F. R., Jr.: *see* DeNagel et al, 823
Kuhl, U.: *see* Bee et al, 101
Kuo, C.-C.: *see* Patton et al, 1087
Kuratomi, R.: *see* Miyake et al, 332
Kuszak, J. R., Khan, A. R., Cenedella, R. J.: An Ultrastructural Analysis of Plasma Membrane in the U18666A Cataract, 261
Kuwabara, T.: *see* Stefánsson et al, 1050
Kuwashima, L., Graeber, J., Glaser, B. M.: Stimulation of Endothelial Cell Prostacyclin Release by Retina-Derived Factors, 1213

L

Laing, R. A.: *see* Fukami et al, 1677
Laird, D. W., Molday, R. S.: Evidence Against the Role of Rhodopsin in Rod Outer Segment Binding to RPE Cells, 419
Lam, K.-W.: *see* Pfister et al, 955
Lambert, R. W., Smith, R. E.: Pathogenesis of Blepharoconjunctivitis Complicating 13-cis-Retinoic Acid (Isotretinoin) Therapy in a Laboratory Model, 1559
Lambrou, F. H., Chilbert, M., Mieler, W. F., Williams, G. A., Olsen, K.: A New Technique For Subchoroidal Implantation of Experimental Malignant Melanoma, 995
Landrum, J. T.: *see* Bone et al, 843
Landshman, N., Ben-Hanan, I., Assia, E., Ben-Chaim, O., Belkin, M.: Relationship Between Morphology and Functional Ability of Regenerated Corneal Endothelium, 1100
Langley, L.: *see* Patton et al, 1087
Lank, K. M.: *see* Pfister et al, 955, 1110
Larson, R. S., Brubaker, R. F.: Isoproterenol Stimulates Aqueous Flow in Humans With Horner's Syndrome, 621
Lea, P. J.: *see* Hollenberg et al, 1380
Lee, D. A., Leong, K. W., Panek, W. C., Eng, C. T., Glasgow, B. J.: The Use of Bioerodible Polymers and 5-Fluorouracil in Glaucoma Filtration Surgery, 1692; *also see* Fain et al, 785, 817
Lee, H.-B.: *see* Koniarek et al, 657
Lee, P.-Y., Shao, H., Xu, L., Qu, C.-K.: The Effect of Prostaglandin $F_{2\alpha}$ on Intraocular Pressure in Normotensive Human Subjects, 1474
Lee, R. H., Navon, S. E., Brown, B. M., Fung, B. K.-K., Lolley, R. N.: Characterization of a Phosphodiesterase-Immunoreactive Polypeptide From Rod Photoreceptors of Developing *rd* Mouse Retinas, 1021
Lee, V. H. L.: *see* Chang et al, 626
Lee, W. R., Dutton, G. N., Cameron, S. A.: Short-Pulsed Neodymium-YAG Laser Trabeculotomy: An In Vivo Morphological Study in the Human Eye, 1698; *also see* Aitken et al, 224
Lehar, M.: *see* Politi et al, 534
Leibowitz, H.: *see* Trinkaus-Randall et al, 393
Leigh, R. J., Dell'Osso, L. F., Yaniglos, S. S., Thurston, S. E.: Oscillopsia, Retinal Image Stabilization and Congenital Nystagmus, 279
Leong, K. W.: *see* Lee et al, 1692
LeRoy, F.: *see* Banga et al, 12
Lerski, R. A.: *see* Plehwe et al, 663
L'Hernault, N. L.: *see* Morrison et al, 1141
Li, W.: *see* Hudes G. R.: 1511
Liebovitch, L. S.: *see* Koniarek et al, 657
Linder, B. L., Trick, G. L., Wolf, M. L.: Altering Body Position Affects Intraocular Pressure and Visual Function, 1492
Ling, T., Vannas, A., Holden, B. A.: Long-Term Changes in Corneal Endothelial Morphology Following Wounding in the Cat, 1407
Linsenmayer, T. F.: *see* Fitch et al, 1125
Linsenmeier, R. A.: *see* Yancey et al, 700
Linssen, A.: *see* Derhaag et al, 1137
Littzi, J.: *see* Piccone et al, 330
Lok, J. B.: *see* Donnelly et al, 827; Semba et al, 1642
Lolley, R. N.: *see* Lee et al, 1021
Long, K., Philp, N., Gery, I., Aguirre, G.: S-Antigen in a Hereditary Visual Cell Disease: Immunocytochemical and Immunological Studies, 1594
Lorance, R.: *see* Brigell et al, 1331
Loya, N.: *see* Wysenbeek et al, 194
Lucas, V. A., Zigler, J. S., Jr.: Identification of the Monkey Lens Glucose Transporter by Photoaffinity Labelling With Cytochalasin B, 630
Lui, G.: *see* Fulcher et al, 755
Lurry, G.: *see* McGuigan et al, 112

M

Macarak, E. J.: *see* Cintron et al, 767
Machemer, R.: Comments on the Receipt of the Proctor Medal, 1768
Machemer, R.: Proliferative Vitreoretinopathy (PVR): A Personal Account of its Pathogenesis and Treatment: Proctor Lecture, 1771
Magin, R. L.: *see* Zeimer et al, 1179
Maglio, M.: *see* Perkins et al, 1836
Mainardi, C.: *see* Fitch et al, 1125
Maisel, H.: *see* Ireland et al, 1356
Malaty, R., Togni, B.: Corneal Changes in Nine-Banded Armadillos With Leprosy, 140
Mallorga, P.: *see* Sugrue et al, 776
Mangini, N. J., Pepperberg, D. R.: Immunolocalization of 48K in Rod Photoreceptors: Light and ATP Increase OS Labeling, 1221
Marcantonio, J. M.: *see* Stewart et al, 1713
Marmor, M. F.: *see* Endo et al, 1390; Kawano et al, 1255; Mori et al, 1040; Yoon et al, 910
Masonson, H.: *see* Ortiz et al, 138
Matkin, C.: *see* Dartt et al, 991
Matkin, E. D.: *see* Jumblatt et al, 586
Maurice, D.: *see* Doughty et al, 216
Mayer, D. L., Fulton, A. B., Cummings, M. F.: Visual Fields of Infants Assessed With a New Perimetric Technique, 452
Mayer, F. J.: *see* Brawman-Mintzer et al, 1756
McAllister, C. G.: *see* Hirose et al, 1636
McBrien, N. A., Millodot, M.: Differences in Adaptation of Tonic Accommodation With Refractive State, 460
McGlinn, A. M.: *see* Stone et al, 305
McGonigle, P., Wax, M. B., Molinoff, P. B.: Characterization of Binding Sites for ^{3}H-Spiroperidol in Human Retina, 687
McGuigan, L. J. B., Quigley, H. A., Lurry, G., Enger, C., Young, E.: The Effects of D-penicillamine and Daunorubicin on Conjunctival Fibroblast Proliferation and Collagen Synthesis, 112
McLaren, J. W., Brubaker, R. F.: A Scanning Ocular Spectrofluorophotometer, 1285; *also see* Herman et al, 133
McLaughlin, B. J.: *see* Tarnowski et al, 291, 742
McLean, I. W., Gamel, J. W.: Prediction of Metastasis of Uveal Melanoma: Comparison of Morphometric Determination of Nucleolar Size and Spectrophotometric Determination of DNA, 507
McLin, L. N., Jr., Schor, C. M.: Voluntary Effort as a Stimulus to Accommodation and Vergence, 1739
McLoon, L. K., Wirtschafter, J.: Doxorubicin Chemomyectomy: Injection of Monkey Orbicularis Oculi Results in Selective Muscle Injury, 1854
McMahon, E. J.: *see* Porter et al, 163
McRobbie, D. W.: *see* Plehwe et al, 663
Melamed, S.: *see* Rosenquist et al, 1159
Mendelsohn, A.: *see* Roth et al, 1544
Menditto, S.: *see* Hung et al, 1860
Mentzer, A.: *see* Fitch et al, 1125
Merigan, W. H., Wood, R. W., Zehl, D., Eskin, T. A.: Carbon Disulfide Effects on the Visual System: I. Visual Thresholds and Ophthalmoscopy, 512; *also see* Eskin et al, 519
Merkel, C.: *see* Shuman et al, 401
Meyer, L. A., Ubels, J. L., Edelhauser, H. F.: Corneal Endothelial Morphology in the Rat: Effects of Aging, Diabetes, and Topical Aldose Reductase Inhibitor Treatment, 940
Mieler, W. F.: *see* Lambrou et al, 995

Miller, J. M., Caprioli, M.: Videographic Quantification of Optic Disc Pallor, 320; *also see* Caprioli et al, 1294
Miller, R. J., Takahama, M.: Arousal-Related Changes in Dark Focus Accommodation and Dark Vergence, 1168
Milleret, C., Buisseret P., Gary-Bobo, E.: Area Centralis Position Relative to the Optic Disc Projection in Kittens as a Function of Age, 1299
Millin, J. A., Opremcak, E. M., Wells, P. A., Foster, C. S.: Ganglionic Permissivity to HSV-1 Replication and Acyclovir-Induced Latency: An In Vitro Model, 232; *also see* Opremcak et al, 749
Millodot, M.: *see* McBrien et al, 460
Mills, R. P.: *see* Britt et al, 795
Minasi, P.: *see* Hatano et al, 1352; Holland et al, 835
Mitchell, M. D.: *see* Weinreb et al, 1708
Mittal, K. K.: *see* Hirose et al, 1636
Miyake, K., Shirasawa, E., Hikita, M., Miyake, Y., Kuratomi, R.: Synthesis of Prostaglandin E in Rabbit Eyes With Topically Applied Epinephrine, 332
Miyake, Y., Shiroyama, N., Ota, I., Horiguchi, M.: Oscillatory Potentials in Electroretinograms of the Human Macular Region, 1631; *also see* Miyake et al, 332
Mochizuki, M.: *see* Kawashima et al, 1265
Moidell, B., Steinbach, M. J., Ono, H.: Egocenter Location in Children Enucleated at an Early Age, 1348
Molday, R. S.: *see* Laird et al, 419
Molinoff, P. B.: *see* McGonigle et al, 687
Mondino, B. J., Sidikaro, Y., Sumner, H.: Anaphylatoxin Levels in Human Vitreous Humor, 1195; *also see* Brawman-Mintzer et al, 1756
Moolchandani, J.: *see* Wallace et al, 406
Moon, M. M., Hazlett, L. D., Hancock, R. E. W., Berk, R. S., Barrett, R.: Monoclonal Antibodies Provide Protection Against Ocular *Pseudomonas aeruginosa* Infection, 1277
Mori, T., Tsue, T. T., Marmor, M. F.: Electrical Responses From Detached Retina Inside the Intact Rabbit Eye, 1040
Morrison, J. C., Jerdan, J. A., L'Hernault, N. L., Quigley, H. A.: The Extracellular Matrix Composition of the Monkey Optic Nerve Head, 1141
Murphy, S. A.: *see* Dartt et al, 1726, 1732
Murray, D. L.: *see* Tillis et al, 988

N

Naash, M. I., Nielsen, J. C., Anderson, R. E.: Regional Distribution of Glutathione Peroxidase and Glutathione-S-Transferase in Adult and Premature Human Retinas, 149; *also see* Nielsen et al, 22
Nakagawa, S.: *see* Nishida et al, 1820; Watanabe et al, 572
Nakajima, A.: *see* Inana et al, 1001
Nakamura, A.: *see* Takatsuji et al, 901
Nakayasu, K.: *see* Inana et al, 1001
Narfström, K.: *see* Ekström et al, 1363
Naumann, G. O. H.: *see* Jonas et al, 1151
Navon, S. E.: *see* Lee et al, 1021
Nesher, R.: *see* Trick et al, 1486
Neufeld, A. H.: *see* Hernandez et al, 78; Jumblatt et al, 586
Newland, H. S.: *see* West et al, 73
Newsome, D. A.: *see* Hewitt et al, 720
Newton, A.: *see* Trinkaus-Randall et al, 393, 1800
Newton, C., Gebhardt, B. M., Kaufman, H. E.: Topically Applied Cyclosporine in Azone Prolongs Corneal Allograft Survival, 208
Nguyen, K. P. V., Chung, M. L., Anderson, P. J., Johnson, M., Epstein, D. L.: Hydrogen Peroxide Removal by the Calf Aqueous Outflow Pathway, 976
Nichols, B. A.: *see* Skorich et al, 1871
Nicolaides, N., Flores, A., Santos, E. C., Robin, J. B., Smith, R. E.: The Lipids of Chalazia, 482
Nielsen, J. C., Naash, M. I., Anderson, R. E.: The Regional Distribution of Vitamins E and C in Mature and Premature Human Retinas, 22; *also see* Naash et al, 149
Niesman, M. R.: *see* Zeimer et al, 1179
Nieves, A. L.: *see* Gary et al, 119
Nino, C.: *see* Sieving et al, 1608
Nishida, T., Nakagawa, S., Watanabe, K., Yamada, K. M., Otori, T., Berman, M. B.: A Peptide From Fibronectin Cell-Binding Domain Inhibits Attachment of Epithelial Cells, 1820
Nishida, T., Yasumoto, K., Otori, T., Desaki, J.: The Network Structure of Corneal Fibroblasts in the Rat as Revealed by Scanning Electron Microscopy, 1887; *also see* Watanabe et al, 572
Noe, R. L.: *see* Waldrep et al, 1538
Norberg, R.: *see* Tallstedt et al, 175
Norcia, A. M., Tyler, C. W., Hamer, R. D.: High Visual Contrast Sensitivity in the Young Human Infant, 44; *also see* Day et al, 327
North, G. T.: *see* Jumblatt et al, 615
Nowakowski, R. W., Thompson, J. N., Baker, H. J.: Diagnosis of Feline G_{M1} Gangliosidosis by Enzyme Assay of Cultured Conjunctival Cells, 487
Nussenblatt, R. B.: *see* Chan et al, 411

O

Oak, S. S.: *see* Fukami et al, 1677
O'Connor, G. R.: *see* Holland et al, 835
Oh, J. O.: *see* Hatano et al, 1352
Oh, S.: *see* Kay et al, 200
Oksala, O., Stjernschantz, J.: Effects of Calcitonin Gene-Related Peptide in the Eye: A Study in Rabbits and Cats, 1006
Olsen, K.: *see* Lambrou et al, 995
Ono, H.: *see* Moidell et al, 1348
Oosterhuis, J. A.: *see* Van Genderen et al, 1469
Ophir, I.: *see* Wysenbeek et al, 194
Opremcak, E. M., Wells, P. A., Thompson, P., Daigle, J. A., Rice, B. A., Millin, J. A., Foster, C. S.: Immunogenetic Influence of Igh-1 Phenotype on Experimental Herpes Simplex Virus Type-1 Corneal Infection, 749; *also see* Millin et al, 232
Orel-Bixler, D. A.: *see* Day et al, 327
Organisciak, D. T.: *see* Braunagel et al, 1066
Ortiz, G. J., Cook, D. J., Yablonski, M. E., Masonson, H., Harmon, G.: Effect of Cold Air on Aqueous Humor Dynamics in Humans, 138
Ota, I.: *see* Miyake et al, 1631
Otori, T.: *see* Nishida et al, 1820, 1887
Ou, K. H. T.: *see* Hatano et al, 1352

P

Panek, W. C.: *see* Lee et al, 1692
Paterson, C. A.: *see* Borchman et al, 982
Patterson, J. W.: *see* Wind et al, 1753
Patton, D. L., Chan, K. Y., Kuo, C.-C., Cosgrove, Y. T., Langley, L.: In Vitro Growth of *Chlamydia trachomatis* in Conjunctival and Corneal Epithelium, 1087
Pavan-Langston, D.: *see* Rong et al, 928
Pederson, J. E.: *see* Tsuboi et al, 1652, 1747
Penn, J. S., Thum, L. A., Rhem, M. N., Dell, S. J.: Effects of Oxygen Rearing on the Electroretinogram and GFA-Protein in the Rat, 1623
Pepperberg, D. R.: *see* Mangini et al, 1221
Perkins, T. W., Alvarado, J. A., Polansky, J. R., Stilwell, L., Maglio, M., Juster, R.: Trabecular Meshwork Cells Grown on Filters: Conductivity and Cytochalasin Effects, 1836

Pettigrew, J. D.: *see* Wildsoet et al, 311
Pfister, R. R., Haddox, J. L., Lam, K.-W., Lank, K. M.: Preliminary Characterization of a Polymorphonuclear Leukocyte Stimulant Isolated From Alkali-Treated Collagen, 955
Pfister, R. R., Haddox, J. L., Lank, K. M.: Citrate or Ascorbate/Citrate Treatment of Established Corneal Ulcers in the Alkali-Injured Rabbit Eye, 1110
Pfister, R. R., Haddox, J. L., Snyder, T. L.: The Effects of Citrate on the Adherence of Neutrophils to Nylon Fibers In Vitro, 869
Philp, N.: *see* Long et al, 1594
Phoon, C.: *see* Rosenthal et al, 649
Piccone, M., Littzi, J., Krupin, T., Stone, R. A., Davis, M., Wax, M. B.: Effects of Neuropeptide Y on the Isolated Rabbit Iris Dilator Muscle, 330
Pinto, G. L.: *see* Del Vecchio et al, 1272
Plehwe, W. E., McRobbie, D. W., Lerski, R. A., Kohner, E. M.: Quantitative Magnetic Resonance Imaging in Assessment of the Blood-Retinal Barrier, 663
Podgor, M. J.: *see* Roy et al, 856
Podos, S. M.: *see* Camras et al, 1428
Polans, A. S., Burton, M. D.: Sialoglycoproteins of the Frog Rod Outer Segment Plasma Membrane, 1523
Polansky, J.: *see* Fulcher et al, 755; Ryder et al, 251
Polansky, J. R.: *see* Erickson-Lamy et al, 600; Perkins et al, 1836; Shuman et al, 401; Weinreb et al, 1708
Politi, L. E., Lehar, M., Adler, R.: Development of Neonatal Mouse Retinal Neurons and Photoreceptors in Low Density Cell Culture, 534
Pollycove, M.: *see* Howes et al, 429
Ponticello, G. S.: *see* Sugrue et al, 776
Porter, F. I.: *see* Demer et al, 1184
Porter, J. D., Edney, D. P., McMahon, E. J., Burns, L. A.: Extraocular Myotoxicity of the Retrobulbar Anesthetic Bupivacaine Hydrochloride, 163
Powers, M. K., Bassi, C. J., Raymond, P. A.: Lighting Conditions and Retinal Development in Goldfish: Absolute Visual Sensitivity, 37; *also see* Raymond et al, 27
Prendergast, R. A.: *see* Jabs et al, 1437; Taylor et al, 1847
Prescott, A. R.: *see* Stewart et al, 1713
Preskill, D. G.: *see* Roth et al, 1544

Q

Qu, C.-K.: *see* Lee et al, 1474
Quigley, H. A.: *see* McGuigan et al, 112; Morrison et al, 1141

R

Rajagopalan, S.: *see* Jester et al, 1190
Ramakrishnan, S.: *see* Fulcher et al, 755
Ratner, B. D.: *see* Bohnert et al, 362
Raymond, P. A., Bassi, C. J., Powers, M. K.: Lighting Conditions and Retinal Development in Goldfish: Photoreceptor Number and Structure, 27; *also see* Powers et al, 37
Reay, C. C.: *see* Handelman et al, 850
Reddy, C.: *see* Roth et al, 1544
Reddy, V. N.: *see* Giblin et al, 1312
Rhem, M. N.: *see* Penn et al, 1623
Rice, B. A.: *see* Opremcak et al, 749
Richards, D. W., Russell, S. R., Anderson, D. R.: A Method For Improved Biometry of the Anterior Chamber With a Scheimpflug Technique, 1826
Rick, M. E.: *see* Roy et al, 856
Roberge, F. G.: *see* Chan et al, 411
Robin, J. B.: *see* Nicolaides et al, 482
Rockey, J. H.: *see* Donnelly et al, 827; Hudes G. R.: 1511; Semba et al, 1642
Rockwood, E. J.: *see* Ferrari-Dileo et al, 876
Rodrigues, M.: *see* Jester et al, 1190; Tisdale et al, 727
Rodrigues, M. M.: *see* Camras et al, 1428
Ronco, L. V.: *see* Dartt et al, 1726, 1732
Rong, B. L., Dunkel, E. C., Pavan-Langston, D.: Molecular Analysis of Acyclovir-Induced Suppression of HSV-1 Replication in Rabbit Corneal Cells, 928
Rootman, D. S., Haruta, Y., Hill, J. M., Kaufman, H. E.: Corneal Nerves Are Necessary For Adrenergic Reactivation of Ocular Herpes, 351
Rootman, D. S., Jantzen, J. A., Gonzalez, J. R., Fischer, M. J., Beuerman, R., Hill, J. M.: Pharmacokinetics and Safety of Transcorneal Iontophoresis of Tobramycin in the Rabbit, 1397; *also see* Haruta et al, 387
Rose, D., Blake, R., Halpern, D. L.: Disparity Range For Binocular Summation, 283
Rose, P. E.: *see* Dartt et al, 1732
Rosenquist, R. C., Jr., Melamed, S., Epstein, D. L.: Anterior and Posterior Axial Lens Displacement and Human Aqueous Outflow Facility, 1159
Rosenthal, F.: *see* West et al, 73
Rosenthal, F. S., Phoon, C., Bakalian, A. E., Taylor, H. R.: The Ocular Dose of Ultraviolet Radiation to Outdoor Workers, 649
Rossi, S. R.: *see* Gilbard et al, 374
Rosskothen, H. D.: *see* Koniarek et al, 657
Roth, S. I., Stock, E. L., Siel, J. M., Mendelsohn, A., Reddy, C., Preskill, D. G., Ghosh, S.: Pathogenesis of Experimental Lipid Keratopathy: An Ultrastructural Study of an Animal Model System, 1544
Roy, M. S., Podgor, M. J., Rick, M. E.: Plasma Fibrinopeptide A, β-Thromboglobulin, and Platelet Factor 4 in Diabetic Retinopathy, 856
Royce, F. H.: *see* Bohnert et al, 362
Russell, S. R.: *see* Richards et al, 1826
Ryan, J. W.: *see* Ferrari-Dileo et al, 876
Ryder, M. I., Weinreb, R. N., Alvarado, J., Polansky, J.: The Cytoskeleton of the Cultured Human Trabecular Cell: Characterization and Drug Responses, 251

S

Sacchi, C. A.: *see* Docchio et al, 437
Sachs, G.: *see* Fain et al, 785
Sagie, D.: *see* Gabay et al, 528
Sakla, A. A.: *see* Semba et al, 1642
Sample, P. A., Esterson, F. D., Weinreb, R. N., Boynton, R. M.: The Aging Lens: In Vivo Assessment of Light Absorption in 84 Human Eyes, 1306
Samples, J. R.: *see* Acott et al, 90
Sandberg, M. A., Baruzzi, C. M., Hanson, A. H., III, Berson, E. L.: Rod ERG Diurnal Rhythm in Some Patients With Dominant Retinitis Pigmentosa, 494
Santos, E. C.: *see* Nicolaides et al, 482
Sanyal, S.: *see* Ekström et al, 1363
Sato, Y.: *see* Takatsuji et al, 901
Schachter, J.: *see* Taylor et al, 1847
Schmidt, G. J.: *see* Tillis et al, 988
Schmidt, K.: *see* Demer et al, 1184
Schmidt, S. Y., Heth, C. A., Edwards, R. B., Brandt, J. T., Adler, A. J., Spiegel, A., Shichi, H., Berson, E. L.: Identification of Proteins in Retinas and IPM From Eyes With Retinitis Pigmentosa, 1585; *also see* Heth et al, 1794
Schoen, T.: *see* Stefánsson et al, 1050

Schor, C. M.: *see* McLin et al, 1739
Schrimscher, L.: *see* Giblin et al, 1312
Seiler, M.: *see* Aramant et al, 498
Semba, R. D., Donnelly, J. J., Rockey, J. H., Lok, J. B., Sakla, A. A., Taylor, H. R.: Experimental Ocular Onchocerciasis in Cynomolgus Monkeys: II. Chorioretinitis Elicited by Intravitreal *Onchocerca lienalis* Microfilariae, 1642
Shao, H.: *see* Lee et al, 1474
Shaul, Y. B.: *see* Wysenbeek et al, 194
Shearer, T. R.: *see* Anderson et al, 1418
Shepherd, V. L.: *see* Tarnowski et al, 291, 742
Sherman, W. R.: *see* Tilton et al, 861
Shichi, H.: *see* Schmidt et al, 1585
Shinohara, T.: *see* Hirose et al, 1636
Shiono, T.: *see* Inana et al, 1001
Shirasawa, E.: *see* Araie et al, 1884; Miyake et al, 332
Shiroyama, N.: *see* Miyake et al, 1631
Shuman, M. A., Polansky, J. R., Merkel, C., Alvarado, J. A.: Tissue Plasminogen Activator in Cultured Human Trabecular Meshwork Cells: Predominance of Enzyme Over Plasminogen Activator Inhibitor, 401
Sibony, P. A.: *see* Coyle et al, 1552
Sidikaro, Y.: *see* Mondino et al, 1195
Siel, J. M.: *see* Roth et al, 1544
Sieving, P. A., Nino, C.: Scotopic Threshold Response (STR) of the Human Electroretinogram, 1608; *also see* Wakabayashi et al, 1615
Siliprandi, R., Bucci, M. G., Canella, R., Carmignoto, G.: Flash and Pattern Electroretinograms During and After Acute Intraocular Pressure Elevation in Cats, 558
Simonsz, H. J., Kolling, G. H., Van Dijk, B., Kaufmann, H.: Length-Tension Curves of Human Eye Muscles During Succinylcholine-Induced Contraction, 1320
Sira, I. B.: *see* Wysenbeek et al, 194
Skorich, D. N., Chiappino, M. L., Nichols, B. A.: Invasion of the Guinea Pig Conjunctiva by *Toxoplasma gondii*, 1871
Smith, R. E.: *see* Lambert et al, 1559; Nicolaides et al, 482
Smolka, A.: *see* Fain et al, 785
Snyder, T. L.: *see* Pfister et al, 869
Socci, R. R., Delamere, N. A.: The Effect of Vanadate Upon Calcium-Stimulated ATPase of the Rabbit Iris-Ciliary Body, 1866
Solomon, F.: *see* Winkler et al, 821
Soref, C.: *see* Burke et al, 1784
Spector, A.: Zacharias Dische 2/18/1895–1/17/1988, 999
Spencer, M., Detwiler, P. B., Bunt-Milam, A. H.: Distribution of Membrane Proteins in Mechanically Dissociated Retinal Rods, 1012
Spiegel, A.: *see* Schmidt et al, 1585
Spurr-Michaud, S. J., Barza, M., Gipson, I. K.: An Organ Culture System For Study of Adherence of *Pseudomonas aeruginosa* to Normal and Wounded Corneas, 379
Spurr-Michaud, S.-J.: *see* Tisdale et al, 727
Sramek, S. J., Wallow, I. H. L., Day, R. P., Ehrlich, E. N.: Ocular Renin-Angiotensin: Immunohistochemical Evidence For the Presence of Prorenin in Eye Tissue, 1749
Stades, F. C.: *see* Boevé et al, 1076
Stark, W. J.: *see* Young et al, 1402
Stefánsson, E., Wilson, C. A., Schoen, T., Kuwabara, T.: Experimental Ischemia Induces Cell Mitosis in the Adult Rat Retina, 1050
Steinbach, M. J.: *see* Moidell et al, 1348
Steinberg, R. H.: *see* Gallemore et al, 566
Stewart, S., Duncan, G., Marcantonio, J. M., Prescott, A. R.: Membrane and Communication Properties of Tissue Cultured Human Lens Epithelial Cells, 1713
Stilwell, L.: *see* Perkins et al, 1836
Stjernschantz, J.: *see* Oksala et al, 1006
Stock, E. L.: *see* Roth et al, 1544
Stone, R. A., McGlinn, A. M.: Calcitonin Gene-Related Peptide Immunoreactive Nerves in Human and Rhesus Monkey Eyes, 305; *also see* Piccone et al, 330; Wallace et al, 406
Straatsma, B. R.: *see* Bird et al, 2
Stulting, R. D.: *see* Abghari et al, 239; Dreizen et al, 933; Waldrep et al, 1538
Sugrue, M. F., Gautheron, P., Grove, J., Mallorga, P., Viader, M.-P., Baldwin, J. J., Ponticello, G. S., Varga, S. L.: L-635,328: An Ocular Hypotensive Agent With Modest Beta Receptor Blocking Activity, 776
Suleyman, S.: *see* Banga et al, 12
Sumner, H.: *see* Mondino et al, 1195
Super, P.: *see* Fisher et al, 1577
Szalay, J.: *see* Harning et al, 1505

T

Takahama, M.: *see* Miller et al, 1168
Takahashi, H.: *see* Kim et al, 1372
Takatsuji, K., Tohyama, M., Sato, Y., Nakamura, A.: Selective Loss of Retinal Ganglion Cells in Albino Avian Glaucoma, 901
Takemoto, L.: *see* Kodama et al, 145
Takki, K.: *see* Inana et al, 1001
Tallstedt, L., Norberg, R.: Immunohistochemical Staining of Normal and Graves' Extraocular Muscle, 175
Tamura, M.: *see* Iwamoto et al, 244
Tannen, B.: *see* Fisher et al, 1577
Tarnowski, B. I., Shepherd, V. L., McLaughlin, B. J.: Expression of Mannose Receptors For Pinocytosis and Phagocytosis on Rat Retinal Pigment Epithelium, 742
Tarnowski, B. I., Shepherd, V. L., McLaughlin, B. J.: Mannose 6-Phosphate Receptors on the Plasma Membrane on Rat Retinal Pigment Epithelial Cells, 291
Tarsis, S. L.: *see* Bone et al, 843
Taylor, H. R., Whittum-Hudson, J., Schachter, J., Caldwell, H. D., Prendergast, R. A.: Oral Immunization With Chlamydial Major Outer Membrane Protein (MOMP), 1847; *also see* Rosenthal et al, 649; Semba et al, 1642; West et al, 73
Thoft, R. A.: *see* Aitken et al, 224; Ebato et al, 1533; El-Ghorab et al, 1671
Thompson, J. N.: *see* Nowakowski et al, 487
Thompson, P.: *see* Opremcak et al, 749
Thum, L. A.: *see* Penn et al, 1623
Thurston, S. E.: *see* Leigh et al, 279
Tillis, T. N., Murray, D. L., Schmidt, G. J., Weiter, J. J.: Preretinal Oxygen Changes in the Rabbit Under Conditions of Light and Dark, 988
Tilton, R. G., Chang, K., Weigel, C., Eades, D., Sherman, W. R., Kilo, C., Williamson, J. R.: Increased Ocular Blood Flow and ^{125}I-Albumin Permeation in Galactose-Fed Rats: Inhibition by Sorbinil, 861
Tisdale, A. S., Spurr-Michaud, S.-J., Rodrigues, M., Hackett, J., Krachmer, J., Gipson, I. K.: Development of the Anchoring Structures of the Epithelium in Rabbit and Human Fetal Corneas, 727
Togni, B.: *see* Malaty et al, 140
Tohyama, M.: *see* Takatsuji et al, 901
Tornqvist, K., Ehinger, B.: Peptide Immunoreactive Neurons in the Human Retina, 680
Trick, G. L., Nesher, R., Cooper, D. G., Kolker, A. E., Bickler-Bluth, M.: Dissociation of Visual Deficits in Ocular Hypertension, 1486; *also see* Linder et al, 1492

Trinkaus-Randall, V., Capecchi, J., Newton, A., Vadasz, A., Leibowitz, H., Franzblau, C.: Development of a Biopolymeric Keratoprosthetic Material: Evaluation In Vitro and In Vivo, 393
Trinkaus-Randall, V., Newton, A., Franzblau, C.: Influence of Substratum on Corneal Epithelial Cell Growth and Protein Synthesis, 1800
Tripathi, B. J.: *see* Camras et al, 1428
Tripathi, R. C.: *see* Camras et al, 1428
Trune, D. R.: *see* Anderson et al, 1418
Tsai, R. J.-F., Tseng, S. C. G.: Substrate Modulation of Cultured Rabbit Conjunctival Epithelial Cell Differentiation and Morphology, 1565
Tseng, S. C. G.: *see* Huang et al, 969; Tsai et al, 1565
Tsuboi, S., Pederson, J. E.: Effect of Plasma Osmolality and Intraocular Pressure on Fluid Movement Across the Blood-Retinal Barrier, 1747
Tsuboi, S., Pederson, J. E.: Volume Flow Across the Isolated Retinal Pigment Epithelium of Cynomolgus Monkey Eyes, 1652
Tsubota, K.: *see* Fukami et al, 1677
Tsue, T. T.: *see* Mori et al, 1040
Tsukada, T.: *see* Katsumi et al, 922
Turner, J. E.: *see* Aramant et al, 498
Twining, S. S.: *see* Burke et al, 1789
Tyler, C. W.: *see* Norcia et al, 44

U

Ubels, J. L.: *see* Meyer et al, 940
Underwood, B. A.: *see* El-Ghorab et al, 1671
Unser, M. F.: *see* Dartt et al, 1726, 1732
Usukura, J., Fain, G. L., Bok, D.: [^{3}H]Ouabain Localization of Na-K ATPase in the Epithelium of Rabbit Ciliary Body Pars Plicata, 606

V

Vadasz, A.: *see* Trinkaus-Randall et al, 393
Valentine, J. L.: *see* Frambach et al, 737, 814
Van Best, J. A.: *see* Van Genderen et al, 1469
Van Buskirk, E. M.: *see* Acott et al, 90
Van der Linde-Sipman, T.: *see* Boevé et al, 1076
Van Dijk, B.: *see* Simonsz et al, 1320
Van Genderen, M. M., Van Best, J. A., Oosterhuis, J. A.: The Immediate Effect of Phenylephrine on Aqueous Flow in Man, 1469
Van Kuijk, J. G. M.: *see* Handelman et al, 850
Vannas, A.: *see* Ling et al, 1407
Van Veen, T.: *see* Ekström et al, 1363
Varga, S. L.: *see* Sugrue et al, 776
Viader, M.-P.: *see* Sugrue et al, 776
Victor, J. D.: Evaluation of Poor Performance and Asymmetry in the Farnsworth-Munsell 100-Hue Test, 476
Viirre, E., Cadera, W., Vilis, T.: Monocular Adaptation of the Saccadic System and Vestibulo-Ocular Reflex, 1339
Vilis, T.: *see* Viirre et al, 1339
Vingrys, A. J., King-Smith, P. E.: A Quantitative Scoring Technique For Panel Tests of Color Vision, 50
Vistica, B. P.: *see* Hirose et al, 1636
Von der Mark, K.: *see* Bee et al, 101

W

Wakabayashi, K., Gieser, J., Sieving, P. A.: Aspartate Separation of the Scotopic Threshold Response (STR) From the Photoreceptor a-wave of the Cat and Monkey ERG, 1615
Wakakura, M., Foulds, W. S.: Immunocytochemical Characteristics of Müller Cells Cultured From Adult Rabbit Retina, 892
Waldrep, J. C., Noe, R. L., Stulting, R. D.: Analysis of Human Corneal IgG by Isoelectric Focusing, 1538
Wallace, I., Moolchandani, J., Krupin, T., Wulc, A., Stone, R. A.: Effects of Systemic Desmopressin on Aqueous Humor Dynamics in Rabbits, 406
Wallow, I. H. L.: *see* Sramek et al, 1749
Walsh, S.: *see* Wind et al, 1753
Wang, H.-M.: *see* Braunagel et al, 1066
Wara, W. M.: *see* Holland et al, 835
Waring, G. O., III: *see* Carlson et al, 578
Wasserman, M. A.: *see* Gary et al, 119
Watanabe, K., Nakagawa, S., Nishida, T.: Chemotactic and Haptotactic Activities of Fibronectin For Cultured Rabbit Corneal Epithelial Cells, 572; *also see* Nishida et al, 1820
Wax, M. B.: *see* McGonigle et al, 687; Piccone et al, 330
Weigel, C.: *see* Tilton et al, 861
Weinberger, D.: *see* Gabay et al, 528
Weinreb, R. N., Polansky, J. R., Alvarado, J. A., Mitchell, M. D.: Arachidonic Acid Metabolism in Human Trabecular Meshwork Cells, 1708; *also see* Ryder et al, 251; Sample et al, 1306
Weiter, J. J.: *see* Frambach et al, 737, 814; Tillis et al, 988
Weleber, R. G.: *see* Inana et al, 1001
Wells, P. A.: *see* Millin et al, 232; Opremcak et al, 749
West, S. K., Rosenthal, F., Newland, H. S., Taylor, H. R.: Use of Photographic Techniques to Grade Nuclear Cataracts, 73
White, P.: *see* Hudes G. R.: 1511
Whitsett, C. F.: *see* Dreizen et al, 933
Whittaker, S. G., Budd, J., Cummings, R. W.: Eccentric Fixation With Macular Scotoma, 268
Whittum-Hudson, J.: *see* Taylor et al, 1847
Wilcox, D. K.: Vectorial Accumulation of Cathepsin D in Retinal Pigmented Epithelium: Effects of Age, 1205
Wildsoet, C. F., Pettigrew, J. D.: Kainic Acid-Induced Eye Enlargement in Chickens: Differential Effects on Anterior and Posterior Segments, 311
Williams, G. A.: *see* Lambrou et al, 995
Williams, L. S.: *see* Gary et al, 119
Williamson, J. R.: *see* Tilton et al, 861
Wilson, C. A.: *see* Stefánsson et al, 1050
Wilson, S. E., Bourne, W. M., Brubaker, R. F.: Effect of Dexamethasone on Corneal Endothelial Function in Fuch's Dystrophy, 357
Wind, B. E., Walsh, S., Patterson, J. W.: Effect of Ouabain on Lens Equatorial Currents, 1753
Winkler, B. S., Solomon, F.: High Activities of NADP$^+$-Dependent Isocitrate Dehydrogenase and Malic Enzyme in Rabbit Lens Epithelial Cells, 821
Wirtschafter, J.: *see* McLoon et al, 1854
Wolf, G.: *see* Hayashi et al, 1810
Wolf, M. L.: *see* Linder et al, 1492
Wood, R. W.: *see* Eskin et al, 519; Merigan et al, 512
Woodward, D. F.: *see* Gary et al, 119
Wulc, A.: *see* Wallace et al, 406
Wyatt, J.: *see* Guillet et al, 949
Wysenbeek, Y. S., Loya, N., Sira, I. B., Ophir, I., Shaul, Y. B.: The Effect of Sodium Hyaluronate on the Corneal Epithelium: An Ultrastructural Study, 194

X

Xi, M.-S.: *see* Donnelly et al, 827
Xu, L.: *see* Lee et al, 1474

Y

Yablonski, M. E.: *see* Ortiz et al, 138
Yamada, K. M.: *see* Nishida et al, 1820
Yancey, C. M., Linsenmeier, R. A.: The Electroretinogram and Choroidal PO_2 in the Cat During Elevated Intraocular Pressure, 700
Yaniglos, S. S.: *see* Leigh et al, 279
Yao, X.-Y.: *see* Endo et al, 1390
Yasumoto, K.: *see* Nishida et al, 1887
Yoon, Y. H., Marmor, M. F.: Effects on Retinal Adhesion of Temperature, Cyclic AMP, Cytochalasin, and Enzymes, 910
Yorio, T.: *see* Cammarata et al, 1452
Yoshitomi, T., Ito, Y.: Effects of Indomethacin and Prostaglandins on the Dog Iris Sphincter and Dilator Muscles, 127
Young, E., Stark, W. J.: In Vitro Immunological Function of Human Corneal Fibroblasts, 1402; *also see* McGuigan et al, 112
Yu, N.-T.: *see* DeNagel et al, 823

Z

Zehi, D.: *see* Merigan et al, 512
Zeimer, R. C., Khoobehi, B., Niesman, M. R., Magin, R. L.: A Potential Method For Local Drug and Dye Delivery in the Ocular Vasculature, 1179
Zigler, J. S., Jr.: *see* Lucas et al, 630
Zintz, C.: *see* Inana et al, 1001